



17<sup>th</sup> DOCOMOMO Germany Conference  
**MODERN MOVEMENT  
& DIGITAL CHALLENGES**

Friday, 6<sup>th</sup> March 2020 | Berlin, Akademie der Künste

**Program /  
Book of Abstracts**

# MODERN MOVEMENT AND DIGITAL CHALLENGES

Organized by:

[do\\_co\\_mo\\_mo\\_de](https://www.do-co-mo-mo.de)



## **MODERN MOVEMENT AND DIGITAL CHALLENGES**

For DOCOMOMO one of the most important questions is how to make knowledge about the Modern Movement accessible. Knowledge that is scattered in many archive files, heads, websites and books. Knowledge about individual buildings, the philosophical ideas behind them, about construction techniques or the original colour scheme. Making it accessible to those who explore the city and whose interest is aroused by a particular building, to those who perhaps even live in a large modernist housing estate, to experts and children.

What opportunities does digitization offer to improve the accessibility of knowledge, to improve perception, recognition and thus ultimately the preserving of modern buildings?

“Modern Movement and Digital Challenges” is the topic of this year’s 17th DOCOMOMO Germany conference. It is not only about technical aspects, such as digital tools in design and for solving special challenges, especially when building in a historically valuable substance, but also about the role that digital media play in communicating modernist or contemporary architecture.

The conference is divided into three thematic blocks and will be framed by keynote lectures by the architects Matthias Sauerbruch and Donatella Fioretti/José Gutierrez Marquez on the relationship between old and new in their projects and on changes in architecture in the 20th/21st century.

In the first thematic block “From Archives to the City” three European cities, Kaunas, Skopje and Antwerp will report on their experiences with the digitization of archive materials on buildings and what significance this has acquired for society’s identification with the particular place.

Afterwards, three examples in “From Files to Media” will be used to discuss the accessibility or difficulties in making the information accessible to the public. What potentials does the participation of the population in the expansion and maintenance of information offer, especially those who were previously not interested?

“Research to Practice” presents research projects on user tools that aim to support work in urban planning and architectural practice. Key points here are big data, photogrammetry and geodata. Of course, we ask the question of what BIM offers in the field of heritage.

In his film and pictures, the architectural photographer Jean Molitor shows us in the evening how art sharpens our perception and thus creates a new awareness of modern buildings or architecture in general.

## PROGRAM

### Day 1 | Pre-Event

**5**  
THU

#### Architekturmuseum der TU Berlin

##### Vernissage and Book Pitches

17.30 „bau1haus - Die Moderne in der Welt -  
Modernism around the globe“ Jean Molitor

Books: “Bauhaus. Eine fotografische Weltreise  
*A photographic journey around the world*” Jean Molitor

“Reglazing Modernism  
*Intervention Strategies for 20th-Century Icons*” Angel Ayón,  
Uta Pottgiesser,  
Nathaniel Richards

“Socialist Modernism in Germany” Dumitru Rusu

### Day 3 | Excursions

**7**  
SAT

#### Akademie der Künste

##### Mitgliederversammlung DOCOMOMO Deutschland (General Assembly)

09.00 - Mitgliederversammlung DOCOMOMO Deutschland (deutsch)  
13.00 *Interessierte Nicht-Mitglieder sind herzlich willkommen!*

##### Excursions

**5.3.20** 16:00 TU Berlin Architekturgebäude / Jörg Gleiter  
(17:30 Vernissage and Book Pitches at Architekturmuseum)

**7.3.20** 10:00 Hansaviertel | Annika Eheim  
13:30 Akademie der Künste / Franz Jaschke

6  
FRI

## Day 2 | Conference & Vernissage

### Akademie der Künste

08.00 Registration and Coffee  
09.00 Welcome and Introduction

Registration EG  
Docomomo Germany / Organizers  
Franz Jaschke / Uta Pottgiesser

#### Keynote 1 | Concepts & Design

09.30 Modern, Experimental und Digital:  
Design Models for the 21st century

Matthias Sauerbruch,  
Andrew Kiel

#### Block 1 From Archives to the City

moderated by Diana Zitzmann

10.20 Kaunas 2022 - "Modernism for the Future"  
10.40 Skopje, Resurgent: Experimental Practices in  
Architectural Preservation  
11.00 From archives to the city. The case of the  
Flanders Architecture Institute  
11.20 Discussion  
11.30 Coffee Break

Viltė Migonytė-Petruilienė  
Ana Ivanovska Deskova

Sophie de Caigny

#### Block 2 From Digital Files to Digital Media

moderated by Michel Melenhorst

12.00 Digitizing it all – challenges and opportunities  
12.20 ArchiMedial  
12.40 Monument protection with internet-based  
information platform  
13.00 Discussion  
13.15 Lunch Break / Buffet

Hans-Dieter Nägelke  
Tino Mager  
Franz Jaschke

#### Block 3 From Research to Praxis

moderated by Andrea Jütten

14.30 DFG-Building Research Network Younger  
Building Stock – Perspectives of digital methods  
of building documentation  
14.50 nextPlace - digital solutions for regional  
and urban planning  
15.10 Documentation, digitization and time dynamics  
of 3D Reconstruction - The INCEPTION Project  
15.30 Discussion  
15.45 Coffee Break

Olaf Gisbertz,  
Sebastian Hoyer

Axel Häusler

Federica Maietti,  
Roberto Di Giulio

#### Keynote 2 | Built Examples

16.15 Memoria und Unschärfe

Donatella Fioretti,  
José Gutierrez Marquez

#### Film Presentation and Panel Discussion

moderated by Uta Pottgiesser

17.00 Wettlauf gegen die Zeit (15 min.)  
17.30 Panel Discussion with Jean Molitor and others  
18.00 Come Together  
19.00 End / Change of Location

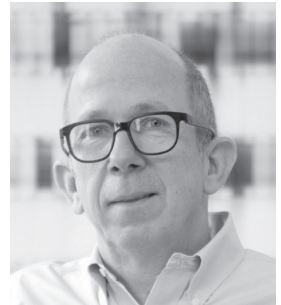
Jean Molitor

#### 19.15 Dinner at Restaurant – Pizzeria Casa Matti

We invite participants to finalize the day with  
a joint dinner at one's own expense.

## Modern, Experimental und Digital: Design Models for the 21st century

Andrew Kiel and Matthias Sauerbruch



*Prof. Matthias Sauerbruch is an architect and partner of Sauerbruch Hutton. In addition to his work as a practising architect, he has been a professor at several universities. He is a founding member of the German Society for Sustainable Building and Director of the Section for Architecture at the Academy of Arts, Berlin. Sauerbruch Hutton are among the most important and experienced representatives of sustainable building. Their integrated planning approach combines functionality and ecological performance with sensuality and intuition.*

*Andrew Kiel studied at the University of Virginia and Princeton University. From 1993 to 1998 he worked for Josef P. Kleihues and other architectural firms in Germany. He joined Sauerbruch Hutton in 1999. As a project manager, he specialized in large-scale projects in the field of sustainable construction. He regularly gives guest lectures at universities and symposia. He has been an associate and member of the executive board since 2005 and senior associate since 2010.*

## Memoria und Unschärfe

Donatella Fioretti and José Gutierrez Marquez



*Prof. Donatella Fioretti – founded Bruno Fioretti Marquez with Piero Bruno and José Gutierrez Marquez in Berlin in 1995. She earned a degree in architecture from the Istituto Universitario di Architettura Venezia in Italy and studied at the University of Kassel. Since 1995, she has arranged workshops and conferences at various universities in Europe and America. She was a research assistant, visiting professor, and full professor at the Technische Universität Berlin, and is currently a professor of Baukunst at the Akademie der Künste in Düsseldorf.*

*Prof. José Gutierrez Marquez – founded Bruno Fioretti Marquez with Piero Bruno and Donatella Fioretti in Berlin in 1995. He earned degrees in architecture from the Universidad Nacional de Rosario in Argentina and the Istituto Universitario di Architettura Venezia in Italy. He was a professor at the University of Applied Sciences Lausitz, a visiting professor at the Brandenburg University of Technology Cottbus, and is currently a professor of interior design and design at the Bauhaus Universität in Weimar. Since 2013, he has been a member of the design advisory board of the Hanseatic city of Stralsund.*

## Franz Jaschke

*Franz Jasche is a graduated Dipl.-Ing. Architect who studied at the Technische Universität Berlin, Germany. Since 2002 he is a managing partner of BRENNE ARCHITEKTEN Gesellschaft von Architekten mbH in Berlin. He is a member of Association of German Architects (Bund Deutscher Architekten BDA), German Association of Craftsmen (Deutscher Werkbund Berlin DWB), Bauhaus Archive Berlin, Baudenkmal Bundesschule Bernau, Association for the Monument Trade Union School in Bernau (Baudenkmal Bundesschule Bernau), Ernst May Society Frankfurt, German National Committee ICOMOS and a Founding member of DOCOMOMO Germany.*



## Uta Pottgiesser

*Uta Pottgiesser, Dr.-Ing. (PhD), licenced architect (1993), studied Architecture at TU Berlin (1984-91) and finished her dissertation at TU Dresden (2002) in Germany, with the title: Multi-layered Glass Constructions. Energy and Construction. She is Chair of Heritage & Technology at TU Delft in the Netherlands (since 2018) and Professor of Building Construction and Materials at Detmold School of Architecture and Interior Architecture, Germany (since 2004), where she also served as vice-president (2006–2011) and dean (2012–2016). She was appointed Professor of Interior Architecture at Faculty of Design Sciences of the University of Antwerp, Belgium (2016–2019). As a practicing architect and academic she is concerned with the protection, reuse and improvement of the built heritage and environment and an active member and vice-chair of DOCOMOMO Germany and since 2016 chair of the DOCOMOMO International Specialist Committee of Technology (ISC/T). She researches, teaches and lectures internationally and is a reviewer and (co-)author of several international journals and publications with a focus on construction and heritage topics.*



## Diana Zitzmann

*Diana Zitzmann is a Board member of docomomo Germany. Researched and published on architecture of the Modern Movement in St. Petersburg, Russia, especially on residential buildings, public bathes and workers' clubs. Currently working as an architect in Berlin, formerly in Romania and Russia.*





## Michel Melenhorst

*Michel Melenhorst studied architecture at Delft Technical University and worked for Wiel Arets (1991-1995) and OMA (1995-1999) before starting his own office in 1999. In 2005, he became a partner in DAAD Architects. In 2012, he switched to Detmold Germany to hold the chair for Contextual Design at the Hochschule Ostwestfalen Lippe, where he coordinates the Master's in Architecture. Michel Melenhorst has extensive experience in teaching and lecturing at institutions such as TU Delft, Design Academy Eindhoven, Lasalle University Bogota, HCU Hamburg, Aarhus school of Architecture, University of Antwerp and K´Arts Seoul. He is a member of Docomomo international and is active in Docomomo Deutschland Workgroup education. At the HS-OWL he is coordinating the Master in Architecture, he is a member of the Researchgroup Urban Lab and co-organises the Universities annual workshop week and Conference ´Detmolder Räume´*



## Andrea Jütten

*Before studying architecture at the University of Stuttgart, she completed a carpentry apprenticeship with BOSS Interior Design in Rhineland following the Bauhaus idea from 1925. After her diploma, she worked for Thomas Leeser in New York. In 1992 she chose to live in Berlin, where she worked as an employed architect on numerous design projects after the reunification. From 1995 - 1997 she lived and worked in Moscow for the architecture office Eller + Eller. Upon her return in 1997, Ms. Jütten was initially self-employed, became later an employed architect, primarily on large new construction projects such as Oberbaum City, the DHM museum of I.M. Pei or the American Embassy. Since 2017 she is working for the Berlin office of Heinle, Wischer + Partner, Freie Architekten with Focus on hospitals, sustainability and schools. As a member of docomomo e.V., Ms. Jütten volunteers especially for the modern movement.*



## Jörg Gleiter

*Jörg H. Gleiter (Prof. Dr.-Ing. habil., M. S., BDA) is the head of the chair of architectural theory and the managing director of the Institute for Architecture of TU Berlin. He holds a PhD in architectural theory and a Habilitation in philosophy of architecture, both from Bauhaus-Universität Weimar. 1989-1995 professional practice in various architecture offices in the US, Italy and Germany. He has been a visiting professor in Venice (2003), Tokyo (2003-05), and Weimar (2005-07). 2005-12 professor of aesthetics at Free University of Bozen-Bolzano/Italy. He is the founder and editor of the book series ArchitekturDenken, and co-editor of the International Internet Journal for Architectural Theory Cloud-Cuckoo-Land (Wolkenkuckucksheim). Among his publications are Architektur und Philosophie [Architecture and Philosophy] (Bielefeld 2015); Ornament Today. Digital. Material. Structural (Bolzano 2012); Urgeschichte der Moderne [Primordial History of Modernity] (Bielefeld 2010); Der philosophische Flaneur. Nietzsche und die Architektur [The Philosophical Flaneur. Nietzsche and Architecture] (Würzburg 2009).*





## Kaunas 2022 - Modernism for the Future

Viltė Migonytė-Petrulienė

The project - Kaunas Modernism 360/365 includes a heritage community, gathered on the basis of the website [www.modernizmasateiciai.lt](http://www.modernizmasateiciai.lt), collecting and sharing knowledge about modernist objects of Kaunas and other Lithuanian and European cities, their residents and events. Dissemination of good practice, creative workshops, educational activities. Calls for artists and residencies designed to carry out artistic interpretations of modernism and created artistic projects in the modernist spaces. Various collaborations with local and foreign partners. During the Interwar Period, Kaunas became the epicentre of significant events taking place in Lithuania and Europe. This period has left over 6000 buildings created in the modernist spirit that have survived to this day. But these are not only buildings, but also places, their authors, builders, and promoters. Their destinies too. To have such a condensed heritage enriched by various individual stories and meanings is a great treasure. It is a living testament of history from the period of prosperity and modernisation that changed the everyday habits and coincided with great changes in European and global cities, urban places and their residencies. Within a short period of time, modernism has become a dominating style of architecture. However, today, most of these buildings are in poor condition, forgotten, abandoned or even empty. So what we are doing to change it?



First of all, to create an emotional connection with this heritage. The programme of Kaunas 2022 European Capital of Culture “Modernism for the Future” is an open space for initiatives and meetings, welcoming professionals from various fields, building owners, heritage community and representatives of cultural initiatives for discussions, idea workshops, art and culture who together create the strategy for preservation, interpretation and dissemination of modernist heritage. Our goal is to awaken responsibility for the environment that surrounds us and create an emotional connection with the urban landscape and culture. The title of the European Capital of Culture is an accomplishment that enables a powerful impulse to create the success story of preservation of modernist heritage, where heritage is created by creating a contemporary presence.

The project - Kaunas Modernism 360/365 aims to strengthen the identity of Kaunas as a modernist city. Number 360 symbolises all possible perspectives of modernism: cultural, political economical, etc. Number 365 refers to the attention to the everyday heritage. It is more than visits to churches and museums on special occasions, but also the everyday architecture: residential buildings, industrial and entertainment facilities. The project includes a heritage community, gathered on the basis of the website [www.modernizmasateiciai.lt](http://www.modernizmasateiciai.lt), collecting and sharing knowledge about modernist objects of Kaunas and other Lithuanian and European cities, their residents and events. Dissemination of good practice, creative workshops, educational activities. Calls for artists and residencies designed to carry out artistic interpretations of modernism and created artistic projects in the modernist spaces. Various collaborations with local and foreign partners.

*Architectural historian Dr. Viltė Migonytė-Petrulienė is the curator for Kaunas – European Capital of Culture 2022 programme 'Modernism for the future'. Defended her dissertation Lithuanian Resort Architecture Between WWI and WWII (1918–1940) as a Phenomenon of Modernizing Society and published scientific and popular articles as well as conference presentations about the history and heritage of modern Lithuanian resort architecture. Teaches in the Cultural Industries program at Vytautas Magnus University (VMU), worked previously as a curator at the Kaunas Photography Gallery and at VMU's Gallery 101, and was the head of the VMU Arts Centre. Dr. Migonytė-Petrulienė is currently involved as a curator and co-curator in different local and European projects related to the interpretations on modernism as well as a riverside and cultural tourism such as the STAR Cities Interreg Europe project.*

## Skopje, Resurgent: Experimental Practices in Architectural Preservation

Ana Ivanovska Deskova

What can an individual do when the institutions for protection fail? When a valuable architectural history has been threatened by neglect, or even worse, deliberately erased or altered beyond recognition as a part of a political project? When valuable modernist buildings are disappearing under layers of faux gypsum and Styrofoam facades and the institutions that were supposed to safeguard this heritage are at least ignorant, at times even in favor of this violent erasure of personal and collective history?

This presentation speaks about how something that usually firmly belongs within the realm of professional preservation can become an act of “individual activism”. It speaks about the “experimental preservation” we conducted upon valuable pieces of 20th Century architecture in the city of Skopje.

With a strong belief that these (to this date still unlisted) buildings are significant enough to be considered a heritage, as it is usually the case within the process of preserving a site or a building, we conducted an extensive research: archives have been consulted, abundance of archival material collected, buildings have been documented, photographed, models of their original condition have been made. Lacking the opportunity to work directly upon the buildings, we tried at least to describe them in data, in order to preserve the knowledge and memory about them.

Revisiting the modernism with a new interest, giving it a new chance for evaluation and judgement, a whole new realm had emerged. Within this space of collecting, archiving and researching, enormous potential arose – to expand the scope of recognized heritage, to talk, to educate, to exhibit, to publish, to experiment as an architect and create a personal research platform and methodology of work.



*Ana Ivanovska Deskova studied at the Faculty of Architecture in Skopje, University “Ss. Cyril and Methodius”. Her main research interest is the Modern Architecture in Skopje, particularly its post-earthquake renewal. Together with Vladimir Deskov and Jovan Ivanovski she was an author of numerous research projects and exhibitions on architecture. Was one of the authors of the National Pavilion at the 2008 and 2014 Venice Biennale of Architecture. Member of the curatorial advisory board of the New York’s MoMA exhibition – “Toward a Concrete Utopia: Architecture in Yugoslavia, 1948–1980”. Currently teaches History of Modern Architecture and Protection of Cultural Heritage at the Faculty of Architecture in Skopje.*

## From archives to the city. The case of the Flanders Architecture Institute

Sophie de Caigny

The Flanders Architecture Institute is the main centre for information about architecture from Flanders and Brussels. It creates a platform for everyone who wants to make, share and experience architecture. We organize exhibitions, lectures, debates, publications and events, such as the Flanders Architectural Review and the biannual Festival of Architecture. Since 2018, the Flanders Architecture Institute manages an exceptionally rich collection of architectural archives that is constantly expanding. Through the collection, the institute links the present, past and future of architecture. Linking the collection, and architectural history in general, with contemporary practice is the current underlying concept of the strategy and all activities of the Flanders Architecture Institute. In this presentation, I will address several examples of how the institute put emphasis on the way archives, heritage and contemporary architectural developments are interwoven.



First, I will explain the way we highlighted the merging of the collection of architectural archives of the province of Antwerp with the Flanders Architecture Institute, by focussing in 2018 on the work of Léon Stynen. Léon Stynen, one of the leading modernist architects in 20th century Belgium, was the founder of the collection. In this project we not only showed the richness of his archives in a monographic exhibition, but also engaged with many agents and organisations – from international universities to neighbourhood organisations and local schools – in order to create awareness for the heritage of Stynen and to keep it alive. Some of the decisions of local authorities on his built oeuvre taken after 2018, show the impact of this project.

The second project that will be addressed is the architectural review, that is published every 2 years by the Flanders Architecture Institute. The focus is on contemporary architecture, but the constellation of the board of editors, the procedure to select projects and the choice for topics and authors, demonstrate a great sensitivity for the continuity between past and present of the city.

As a third project, the presentation will focus on the participation of Belgium in the Biennale Architettura 2020 in Venice. The Flanders Architecture Institute is commissioner of the Belgian Pavilion, and launched an open call in which it invites architects, urban planners, designers, researchers, critics and artists to develop an exhibition concept that responds to the theme of memory as a design studio. Bovenbouw Architectuur won the competition with a project named 'Composite Present'.

*Sofie De Caigny is the director of the Flemish Architecture Institute. She was coordinator of the Centre for Flemish Architectural Archives (2006-2017). Since 2011 she teaches Architecture Criticism at the University of Antwerp and since 2014 she is Secretary General of ICAM - International Confederation of Architectural Museums. Sofie De Caigny studied History and Cultural Management at the KULeuven and the University of Barcelona. She defended her PhD at KULeuven in 2007 (published in 2010 - University Press Leuven). She published on the development of housing culture during the interwar period, the relation between contemporary architecture and the conservation movement, and on reconstruction architecture in Flanders. She curated the exhibition on Renaat Braem (deSingel Antwerp 2010), an exhibition on Flemish and Dutch architecture at the Deutsches Architekturmuseum in Frankfurt and co-edited 'Autonomous Architecture in Flanders. The Early Works of Marie-José Van Hee, Christian Kieckens, Marc Dubois, Paul Robbrecht and Hilde Daem' (2016). She was editor-in-chief of the 'Flanders Architectural Review N°13. This Is a Mustard Factory' (2018). She is commissioner of the Belgian entry for the Venice Architecture Biennial 2020.*



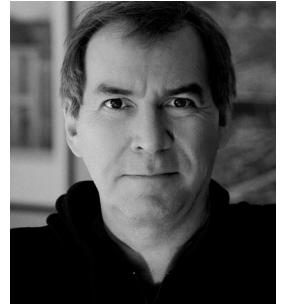
## Digitizing it all – challenges and opportunities

Hans-Dieter Nägelke

Founded in 1885, the Architekturmuseum at the Technische Universität Berlin is one of the oldest collections of its kind in the world. Its archives now comprise some 180,000 drawings, photographs, prints, sketchbooks, models and much more from 250 years of German and Berlin architectural history. This unique treasure has been comprehensively digitized for 15 years. 145,000 objects, with descriptions and high-resolution images, are now available to researchers and the interested public alike.

From a digital perspective, 15 years is almost eternity. What goals were formulated at the beginning of this eternity? What has become of them? What was achieved and what was rejected? What new wishes and ideas have been added?

With a special focus on the users of the collection for which the project was developed and on whose cooperation it counts on, the lecture reports on challenges and possibilities, on technical aspects and on how the existence of a digital collection changes the view of its analog counterpart.



*Hans-Dieter Nägelke is an architectural historian and exhibition curator. After his studies in Kiel and a doctorate on the subject of "University Buildings in the German Empire", he initially worked as a freelance editor and media designer. Since 2001 he has lived and worked in Berlin - first as founding director of the "Schinkel Centre for Architecture, Urban Research and Monument Preservation", and since 2003 as director of the Museum of Architecture. He is the author of numerous contributions to the history of architecture in the 19th and 20th centuries and curator of many exhibitions.*

## ArchiMediaL

Tino Mager

Digital approaches to inaccessible heritage

In cooperation with computer scientists, ArchiMediaL develops an automatic recognition of buildings in images based on deep learning and linked data. On the one hand, this is intended to make buildings on images without annotations accessible to research. On the other hand, the recognition of image content serves to interlink repositories independently of linguistic parameters. Both will be of particular benefit to research into buildings outside the architectural canon which have not yet been sufficiently considered. The project is a sample of the changing research conditions of architectural historians, who will increasingly integrate quantitative methods into their daily work in the future.



*Tino Mager studied media technology in Leipzig and art history and communication science in Berlin, Barcelona and Tokyo; 2015 PhD in architectural history (Elsa Neumann Fellowship, Tiburtius Prize). After research stays in Japan and at the University of California, Los Angeles, he was a lecturer at the Technical University of Berlin and the ITU Istanbul, scientific assistant at the Chair of History and Theory of Architecture at the TU Dortmund and postdoctoral fellow of the Leibniz Association. Since 2017, Tino is postdoc at the Chair of History of Architecture and Urban Planning at TU Delft.*



## Monument protection with internet- based information platform

Franz Jaschke

The horseshoe settlement in Berlin Neukölln by Bruno Taut and Martin Wagner, built from 1926 to 1931, is one of the 6 Berlin housing estates of the modern movement that were listed as UNESCO-World-Heritage in 2008. Ownership and population of the settlements are very different. What they all have in common is the search for ways of preserving the buildings according to the preservation of monuments while also adapting them to today's living needs and technical and energy requirements – the fundamental challenge on monuments at all.



With the UNESCO registration, money was provided by the federal government to realize monument adequate and suitable renovation measures as well as to establish education facilities that provide users, tenants and visitors with information that is needed to grasp the meaning, history and substance of the buildings. For this purpose so-called infopoints have been installed in the settlements. Some also have sample apartments, which make it possible to get an impression and a feeling of the original apartment flair and at the same time to present the historical context.

Only in the horseshoe settlement an internet-based information platform was started as a pilot project. In this settlement there is both Deutsche Wohnen as a professional renter for the multi-storey apartment buildings as well as individual owners of the one-family row houses, which are successively sold by the Deutsche Wohnen and which are very popular even if the buying is connected to the obligation to preserve the house according to the demands of the monument protection.

The needed information about the original construction, the monument preservation concept and the possible scope is available in the form of historical reports and care instructions since a long time, but usually it is adjusted to the monument protection authorities and the housing companies. Being printed brochures or bound reports, these surveys no longer correspond to today's research habits, which have fundamentally been changed by the possibility of the Internet.

Therefore the challenge is to bring together the extensive material, to digitalize it and to make it accessible to all interested parties. The aim of the pilot project in the horseshoe settlement is to develop an internet platform. As being an information platform it functions as a well readable, richly illustrated monument protection database. At the same time it also serves as a communication platform with the opportunity to exchange knowhow and experience with renovation measures that have already been carried out. Another use could be that owners of an entire row organize themselves to combine renovation measures, which is particularly desirable and sensible in the row houses, both in terms of the homogeneous exterior design and economy reasons.

Since all the provided information is always linked to the naming of specific addresses and in some cases also personal names the issue of data protection comes along and creates nearly invincible barriers. That's why this urgently needed and meanwhile very well grown pilot project threatens to fail.

*Franz Jaschke is a graduated Dipl.-Ing. Architect who studied at the Technische Universität Berlin, Germany. Since 2002 he is a managing partner of BRENNEN ARCHITEKTEN Gesellschaft von Architekten mbH in Berlin. He is a member of Association of German Architects (Bund Deutscher Architekten BDA), German Association of Craftsmen (Deutscher Werkbund Berlin DWB), Bauhaus Archive Berlin, Baudenkmal Bundesschule Bernau, Association for the Monument Trade Union School in Bernau (Baudenkmal Bundesschule Bernau), Ernst May Society Frankfurt, German National Committee ICOMOS and a Founding member of DOCOMOMO Germany.*



## DFG-Building Research Network Younger Building Stock – Perspectives of digital methods of building documentation

Olaf Gisbertz and Sebastian Hoyer

We live in times full of challenges: Digitalization, internationalization, climate change and social responsibility for living together in a »just city«. These are all issues that affect architecture in particular, because buildings are usually »long-term products«, that are planned and used for a longer period of time. The resource architecture is therefore per se a topic of preservation, conversion and further construction as well as the preservation of historical monuments. And the respective strategies for long-term preservation are based on different premises.

In times of high building booms, in which an enormous surge in investment is being exerted on large stocks, the long-term use of the younger building stock has been at issue for years despite the fact that resources are becoming scarcer.

At present debates are being held above all on the building stock, which was created at the time of the 3rd Industrial Revolution and which makes up more than 60 per cent of the total building stock in Europe. On the one hand, the theses papers of monument theory are helpful in the discussion of values. On the other hand, modernism is denied the ability to renovate for reasons mostly inherent in buildings. The structural resources of the interwar period and the decades after 1945 are declared to be »contaminated« and even a built »paradox«. In contrast to older building stocks with a broad density of sources and research activity, there is a desideratum about building methods, constructions and façade systems of the modern age – despite some publications that have made research history: the building systems of the period, the finishing products and the nature of the building infrastructures are too diverse.

In the age of the 4th Industrial Revolution from the perspective of building history it seems more than necessary to make use of digital methods in order to address the broad range of modernist building stock. Building research, which under the keyword »Scan to BIM« also evokes planning potential, plays a key role in the basic evaluation of architecture and monument preservation. A further step is the interdisciplinary cooperation with geosciences, modern building materials science and materials science in combination with the possibilities of »urban mining«.

*Sebastian Hoyer, studied architecture at the TU Braunschweig. 2005-08 Office work in Dublin, since 2008 academic employee at the TU Braunschweig in the field of preservation, currently at the Institute of Preservation of Buildings and Structure. Since 2013 participation at the Institute of Building Documentation of the iTUBS. Doctorate in 2018 with the title "Der Stab im Tragwerk". Memberships in the societies Bautechnikgeschichte and KOLDEWEY-Society, Netzwerk Braunschweiger Schule and the DFG network "Bauforschung jüngerer Baubestände".*

*Olaf Gisbertz, PD, Dr., M.A., heads the Centre for Building Research + Communication + Monument Preservation in the Innovation Society (iTUBS), since 2017 V-Professorship for the subject area of Building History and Monument Preservation at the University of Applied Sciences Dortmund. Habilitation thesis at the TU Braunschweig on aspects of reflection and transformation of (post-war) modernity. Member of DOCOMOMO and ICOMOS, KOLDEWEY-Society, appointed associate member of the BDA - Bund Deutscher Architekten in 2017.*



## nextPlace - digital solutions for regional and urban planning

Axel Häusler

nextPlace is a research focus at the Technical University Ostwestfalen-Lippe in Detmold. We research and develop digital solutions in the areas of regional and urban planning, Smart City and Smart Mobility in the context of spatial, social and entrepreneurial issues. With our work, we contribute to sustainability challenges (such as climate change, demographic change, open data, data governance) and use digitization to design new user-oriented business fields for spatial development. We believe that digital applications and their effects must be understood and discussed transparently. We think that space is at least 4-dimensional, everything is part of a dynamically changing network and transformation can be designed through technological progress. This is valid for local spaces, as well as for virtual spaces. Consequently, social, economic, and political changes are always placed in a spatial, temporal, and medial context. The questions which technologies should be used and, when or how can these technologies be transferred to other spatial environments depends on a variety of individual and informal factors.



During the docomomo Conference we will present two actual projects that explain the work of the nextPlaceLab: 1. "LivingLab Essigfabrik" and 2. "myField".

The first project "LivingLab Essigfabrik" started in 2019 and will terminate in 2022. Its aim is to develop digital collaborative technologies and put their potentials regarding new forms of digitised cultural industries to the test, namely through several design thinking cycles. The LivingLab is situated in the middle of an urban development process in Cologne that aims at transforming the former industrial harbour into a new neighbourhood, in which 6900 people can live and 6000 people can work. This urban transformation process serves as the foundation of the research, which examines new and innovative interlinks between urban digitalisation, urban development, and cultural industries. One of the main research questions is: How can cultured lifestyles and social interactions in public spaces be fostered through digital technologies?

The second example „myField“ is a geodata-based web portal which allows citizens to collaboratively research, evaluate, and implement spatially significant environmental protection measures. In terms of evaluating, the aim is to test the relevance and effects of different scenarios of appropriate environmental protection measures at a specific location, e.g. a specific neighbourhood (simulation function). Regarding the aspect of implementation, we allude to the direct communication channel that established a link to the municipality, to other interested citizens, to manufacturers, and consultative engineering offices. Based on the results of the conducted evaluations, it will be possible to develop effective and specific measures in collaboration with all involved parties. The project aims at developing a technical spatial data infrastructure, which encompasses all of the aforementioned functions and interlinks all the required stakeholders within the context of just a single communication portal. By doing so, myField meets the German government's call for a digitalised linkage between civic, municipal, and entrepreneurial engagement within urban development processes.

*Axel Häusler has been teaching in the Urban Planning course of the Department of Architecture, Interior Design and Urban Planning at the Technische Hochschule Ostwestfalen-Lippe (teaching field: Digital Media and Design) since September 2014. With his interest in innovative research and development cooperations in connection with the use of digital media, he initiated the interdisciplinary research focus 'nextPlace'. The main research topic is the visualization of different spatial behavior patterns and the visualization of the dynamic interaction of people, goods and information in space using interactive maps and simulation models.*

## Documentation, digitization and time dynamics of 3D Reconstruction - The INCEPTION Project

Federica Maietti and Roberto Di Giulio

One of the key issues today is how to best use the opportunities provided by digitalization in the enhancement of cultural heritage. Digitalization opens new forms of access, and new and innovative technologies are a great opportunity to understand, enhance and preserve cultural heritage. The enhancement of digital cultural heritage accessibility as the ability of browsing cultural contents and resources for as many people as possible by using ICT functionalities and applications is the main focus of the H2020 Project INCEPTION - Inclusive Cultural Heritage in Europe through 3D semantic modelling.



The project contributes to a deeper awareness and understanding of European cultural heritage thanks to the use of 3D models within the INCEPTION platform, the key-targeted achievement of the overall project. The platform implements semantics about specific contents on individual 3D models and allows access to metadata or paradigms; a multi-user access with information, functions, or different data access modes depending on the different typologies of users is allowed. The BIM applied to Heritage is the key component of data aggregation making the link between the state-of-the-art of the BIM world and the state-of-the-art of the Cultural Heritage world. BIM for heritage is a Semantic Web based ontology, an open standard enabling many available tools as well as functionality.

The project has been also the base for the proposal of an informative system on Modern Materials: a digital tool for conservation and enhancement of 20th Century architectural heritage and interior design. Starting from experiences, combined with examples of digital documentation of Modern Architectures, the presentation will focus on the main digital challenges for sharing knowledge and data about conservation and reuse of 20th century Architecture.

*Federica Maietti, M.Arch., PhD, is Associate Professor at the Department of Architecture of the University of Ferrara and member of the DIAPReM Centre – Development of Integrated Automatic Procedure for Restoration of Monuments - focusing her activities in the fields of heritage survey and documentation, diagnostic procedures, innovative technologies for integrated surveys. In this area, she has experimented with operational and methodological applications in different national and international contexts. She has been the Technical Coordinator of the H2020 project “INCEPTION - Inclusive Cultural Heritage in Europe through 3D semantic modelling”.*

*Roberto Di Giulio, Architect, PhD, is full Professor at the University of Ferrara. He is director of the Building Maintenance Laboratory (LEM) and his research encompasses performance of materials, building design methodologies, investigation of maintenance strategies and building pathology. He has been the Project Coordinator of the H2020 project “INCEPTION - Inclusive Cultural Heritage in Europe through 3D semantic modelling” and he has been actively involved in several EU research projects. He is Member and Chair of a Working Group in the Focus Area on “Cultural Heritage” in the European Construction Technical Platform (ECTP).*

# FILM PRESENTATION AND PANEL DISCUSSION

## Wettlauf gegen die Zeit - *Race against the time*

Jean Molitor



The film is a kind of making-off in which the way of working is shown on location in different countries. The viewer thus gets an impression of the requirements, whether at 40 degrees in the shade in Congo or with camera and tripod at -20 degrees in the Urals. Small work secrets, which are not so easy to look at the pictures. It also becomes clear that this project is only possible with the support of the local people.

*Born on August 23, 1960 in Berlin. His passion for his job brought him from Greenland to Russia, the African continent, Asia and even faraway South America. He made several documentary films for German television. At the age of 15, Jean Molitor received his first public recognition for a successful photo in the "Young Photographers" working group. Later followed a professional training for photographers and camera assistants. Building on this a study of artistic photography at the Academy of Visual Arts in Leipzig. Since graduating in 1993, Jean Molitor has worked as a freelance photographer worldwide for renowned companies and institutions. During this time, he worked primarily in the field of reportage for print media and television productions, is a picture author of several book publications and was involved in numerous international social non-profit projects (Belarus, Ukraine, Cuba, Central Africa, Afghanistan, Kenya, Niger, Romania). After longer work stays in South America and China, Jean Molitor has increasingly devoted himself to architectural photography since 2009. Today he is also considered an ambassador of the so-called "Leipzig School" and developed his own style from this artistic environment. His objects and inspirations are sought after by the Berlin cosmopolitan all over the world. Personal exhibitions in Europe, Asia, Africa and America (2007-2020) speak of a cross-cultural orientation of his creative work.*



