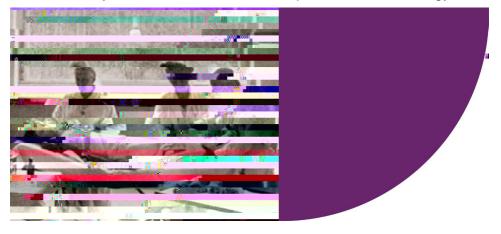


Health, Environment and Architecture

Discourses from the Past, Challenges for the Present, Perspectives for the Future

Guest lecture series 2023/24

Main Organisers: Thorsten Fögen, Department of Classics & Ancient History and Jonathan Wistow, Department of Sociology

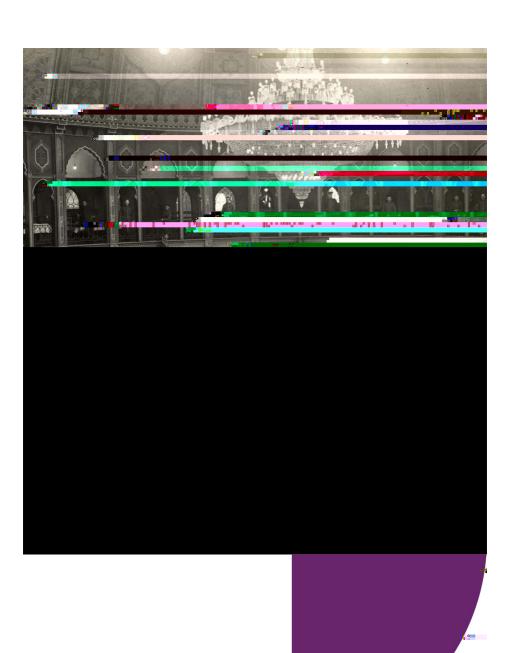


Everybody's life and health are affected by environmental factors. Housing conditions, workplace, architecture, design and landscape constitute important individual and interdependent elements in that regard. To this we must add environmental factors such as global warming, extreme weather events and pollution, which have repercussions for the ways in which we think about architecture and housing.

This guest lecture series will approach the relationship between health, environment and architecture from various different angles:

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2. A focus on socio-political and medical perspectives will incorporate disciplines such as modern sociology, public health, political science and medicine to complement the perspectives outlined above and approach the



Abstracts

"Building out the rat: Urban improvement and ecologies of the Bombay plague epidemic, 1896–1920"

Dr. Emily Webster (Durham University, UK)

At the turn of the twentieth century, the city of Bombay was in the midst of an ongoing epidemic of Yersinia pestis that killed thousands annually. While in many cities that Yersinia pestis arose during the Third Plague Pandemic (1896–1940) the epidemic emerged and subsided quickly, taking a few dozen lives, in Bombay, the epidemic returned cyclically, killing hundreds or thousands before retreating again. By 1930, over 180,000 residents of the city (or roughly one quarter of the city's pre-epidemic population) were reported to have died of plague (Arnold 1993, Klein 1986). The unique ecology of the disease in the city prompted steps by the City Government of Bombay to address the apparent "place-based" etiology of plague. The Bombay Improvement Trust Act of 1898 established the Bombay Improvement Trust, a municipal organisation charged with enacting "a comprehensive scheme for the improvement of the City of Bombay, more especially in respect to the better ventilation of densely inhabited parts, the removal of insanitary dwellings, and the prevention of overcrowding" (Bombay Improvement Trust, Administration Report for the Year Ending, 31 March 1901, Bombay Improvement Trust Administration Report 1898–1899 to 1904–1905, p. 3).

In this talk, I will examine the role of slum clearance and urban beautif cation projects undertaken by the Bombay Improvement Trust between 1898 and its dissolution in 1925 in the spread of plague across the city of Bombay. Building on the work of Kidambi (2001), Hazareesingh (2001), and other scholars of urban improvement, I will argue that these urban beautif cation projects were conducted in tension with and often contradictory to the work being undertaken by the Plague Research Committee into plague-proof housing. Combining geospatial, ecological and primary source evidence from the epidemic, this talk will assert that the approach of the Bombay Improvement Trust likely contributed to the continuation of the epidemic by disrupting rodent communities and worsening living conditions, and in doing so highlight the long-term effects of the fracturing of knowledge production and implementation practices at differing scales of governance during the epidemic.

References:

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"Architecture for mental healthcare: Twentieth-century transitions"

Dr. Christina Malathouni (University of Liverpool, UK)

Although mental health features prominently in contemporary discourse about human health and wellbeing, there are still critical gaps in historical accounts of twentieth-century psychiatry, related disciplines that led to the adoption of the broader concept of "mental healthcare", as well as the spaces and places that supported these. Within this context, this research examines the design of specialist buildings for mental healthcare in England in the post-World War II period, including the critical transition to deinstitutionalisation, as well as connections to earlier and later periods of the twentieth century.

Despite its virtual absence from associated historiography, building activity relating to mental healthcare in England was extensive throughout the twentieth century and also varied considerably: from interior reconfigurations of existing structures, to additions of nondescript buildings and wartime temporary structures, as well as new building types and fagship commissions that attracted higher funding and prestigious architectural designers. Out of this wide range, the discussion in this presentation focuses on a new building type that emerged as a variation of earlier asylum typologies at the turn of the century, yet continued to develop to its late decades; that is, what became known at different times as Reception, Admission, or Early Treatment Hospitals and effectively became a connecting thread across a series of critical policy and practice changes. Some comparisons will also be made to the earliest known applications of the preferred approach from the 1960s onwards, following the gradual abandonment of mental hospitals; namely, the incorporation of psychiatric wards within district general hospitals. Although the research falls primarily within the feld of architectural history, one of its primary aims is to decipher connections to "social" interpretations of human nature and how parallel studies grounded in other disciplines that linked space and society may have also infltrated specialist guidance for healthcare architecture.

References:

- Malathouni, Christina (2023): 'The general atmosphere of this admission unit is reassuring and optimistic'. Modernism, architectural research and evolving psychiatric reforms in post-war England. In: Gundula Gahlen, Volker Hess, Marianna Scarfone & Henriette Voelker (eds.), Doing Psychiatry in Postwar Europe. Practices, Routines and Experiences, Manchester (in press).
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- Malathouni, Christina (2020): Beyond the asylum and before the 'care in the community' model. Exploring an overlooked early NHS mental health facility. In: History of Psychiatry 31, 455–469.

"Buildings as an inner balm? Aesthetics and resilience"

Professor Christian Illies (University of Bamberg, Germany)

Buildings shelter from rain, wind, heat and cold, provide suffcient space, and meet

"Sanitation for all? Cities and the right to citylife"

Professor Colin McFarlane (Durham University, UK)

In the wake of the COVID-19 pandemic, the relationship between the health of the city and good sanitation has never been more important. Sanitation is one of modern urban life's most neglected issues. This lecture makes the case for sanitation for all, arguing for a renewed, equitable investment in sanitation as a foundation of urban social life. Adopting Henri Lefebvre's concept of 'the right to the city', it uses the notion of 'citylife' to reframe the discourse on sanitation from a narrowly defined policy discussion to a question of the democratic right to public life.

References:

McFarlane, Colin (2023): Waste and the City. The Crisis of Sanitation and the

"The Healing Seven: How architecture impacts health"

Professor Gemma Koppen (Coburg University of Applied Sciences and Arts, Germany)

"What if tomorrow the space we thought was safest – our own body – no longer offered protection? Are there protective shells that we could slip into? Hospitals that help heal our body and soul? Anyone embarking on a quest for answers will discover that there is an urgent need for thorough change in the planning and design of hospitals and healthcare facilities. Taking an understanding of severely ill people's perceptions as a reference point (a scientific human scale) for this change, and thus arriving at a new architecture, is the scientifically defensible and auspicious way to fulfil the aspiration to design 'healing buildings' " (Vollmer 2023: 14–15). Taking this perspective for the last ffteen years of empirical research and architectural design, my research group and I could identify seven factors of hospital architecture, seven so-called environmental variables, that infuence the stress experience of seriously and chronically ill patients. Stressed patients recover with more difficulty and may find their recovery actually endangered. Reducing or avoiding stress is therefore the fundamental aim of an architecture that impacts health and healing. The lecture provides insight into the scientific discovery of the "Healing Seven" and its application to architecture.

References:

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"More than 'just nature': Investigating the built environment as a place for psychological restoration"

Dr. Eleanor Ratcliffe (University of Surrey, UK)

Extensive literature in environmental psychology is devoted to study of the connections between physical environment and health and wellbeing, including psychological outcomes. A subsection of this literature focuses on 'restorative environments', or settings that support psychological recovery from everyday stress and/or demands on attention. Much of this work stems from study of wilderness experiences in the 1980s (e.g. Kaplan & Talbot 1983), and since then the feld has broadly positioned natural environments as more helpful in supporting psychological restoration than urban or built environments (see Hartig & al. 2014, for a review). Practitioners now draw on this literature to inform nature-based interventions for mental health, including in urban settings (Leavell & al. 2019). In recent years scholars have challenged the 'natural versus urban' dichotomy, showing that built settings can also support psychological restoration through experience of, e.g., cultural heritage, streetscapes and leisure areas, and particular architectural elements (Weber & Trojan 2018). Examination of positive experiences of built environments has also revealed the importance of attachment to place, showing that favourite places and areas that refect one's individual or cultural heritage can be perceived and experienced as restorative (Ratcliffe & Korpela 2016, Subiza-Pérez & al. 2021). In this talk I will present these and related studies, which I have conducted together with international collaborators, and suggest ways in which the findings can be applied to support psychological wellbeing in cities and towns.

References:

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"Architect of information: Race and the environmental health models of Dr James Africanus Beale Horton in British Africa during the nineteenth century"

Professor Matthew Eddy (Durham University, UK)

Information is often characterised as facts that foat effortlessly across time and space. But during the nineteenth century, information was seen as a process that included a set of skills enacted through media on a daily basis. Media systems, like buildings and roads, had to be designed and, like architects, information engineers had to think about a host of material and social issues when they created data. This was especially the case in colonial settings such as British West Africa, where the structural inequalities of race infuenced the design of health models and the collection of inadequate medical and climatological data. But there were a number of nineteenth-century black physicians who challenged this architecture. One such physician was Dr James Africanus Beale Horton (1835–1883), and this paper examines the role he played as an informatic architect who sought to re-engineer the relationship between data and disease in the media systems the British used to manage health in mid-nineteenth-century colonial Sierra Leone.



"The results freed us from some of our Western assumptions about how a hospital ought to be: Aga Khan University Hospital in Karachi and hospital architecture in the mid-twentieth century"

Dr. Sara Honarmand Ebrahimi (University of Frankfurt, Germany)

In 1970, after interviewing several architects based in Britain, France and the USA, His Highness the Aga Khan IV chose Boston-based Thomas Payette as the architect and Mozhan Khadem, an Iranian architect, as the design consultant to design the Aga Khan Medical Complex in Karachi, Pakistan. Payette and Khadem designed the Complex in 1972/73 together with a group of health consultants, a landscape designer, a local design consultant and several tilemakers. The construction of the Complex, which consisted of a 721-bed hospital, a medical school for 500 students, a school of nursing, housing for staff and students and a mosque, was completed in 1985. Prior to designing the Complex. Payette and Khadem visited Spain. North Africa. Turkey, Persia and Pakistan to study historic hospitals and buildings. Payette called this trip a "process of discovery", stating that "the results freed us from some of our Western assumptions about what a hospital ought to be". This paper will contemplate this statement by examining the architecture of the Aga Khan Medical Complex in Karachi in the context of hospital architecture in the middle decades of the twentieth century. It shows how the design team's purpose was to put forward a different vision distinct from both the capitalist West and the Socialist East. This vision focused on "all-encompassing unity" of "spirit and body" and "man and nature" by drawing on prevailing ideas concerning Islamic architecture that, for example, were being discussed in Persia by the likes of Mohammad Karim Pirnia.

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