

[145] Institut für Städtebau

PhD Day

Seminar for PhD students (doctoral school for architecture) [145.441]

2022/23

02.02.23 10am-06pm
Halle, Kronesgasse 5
A-8010 Graz

In collaboration with
GAM.Labor
TU Graz

Institute of Urbanism

stdb.tugraz.at

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PhD Day

with topics including:
Digitalisation, Ecology and Participation

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PhD-Day – Seminar for PhD Students

PHD-DAY

Carlos Marchi
Stephan Joeris
Max Florian Frühwirt
Petra Kubin
Zeliha Asya Ilgün
Patricia Lucena Ventura

Halle **2.2.23**
Kronesgasse 5 **10–18:00**
[145] Institut für Städtebau
 Anmeldung bis 27.1.23 unter: m.haselbacher-berner@tugraz.at

Institute of Urbanism

program

- 10-10:10am:
Welcome: Prof. Aglaée Degros
- 10:10am-11:00am:
Carlos Marchi
 Digital Architectonics and Environmental Urbanism
- 11:05am-11:55am:
Stephan Joeris
 Der 6. Sinn der Architektur
- 12:00pm-12:50pm:
Max Frühwirt
 Today's Kyou-machiya – 今日の京町家 (Kyou no Kyou-machiya)
- lunch break 12:50pm-02:00pm**
- 02:00pm-02:50pm:
Petra Kubin
 Gründerzeitliche Innenhöfe in Graz
- 02:55pm-03:45pm:
Asya Ilgün
 LIVING ARCHITECTURE FOR HONEYBEES
- 03:50pm-04:40pm:
Patricia Ventura
 The Sensitive City — The Micropolitical Transformation of Territories
- end: approx. 05:00pm**

topics

DIGITAL ARCHITECTONICS AND ENVIRONMENTAL URBANISM

What to do as an architect, spatial designer, urban “planner” living in the age of information (digitality) and global complex challenges? This research departs from this question. It interrogates eventual resonances between buildings’ architecture and specific urban dynamics, including ecological, social, and economic factors, in contemporary cities from 2000 to 2020. The idea is to explore a selection of test-cases via digital mapping & informational modeling techniques, articulating distinct computational tools (such as BIM, GIS, and AI) as cognitive augmentation instruments to understand better (comprehend), to know more (discover) and to think differently (“exodic” knowledge) about the implications of architecture over the urban environment and life.

Carlos Marchi
Prof. Urs Hirschberg
Institute of Architecture and Media (IAM)

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DER 6. SINN DER ARCHITEKTUR

Die Dissertation beschäftigt sich mit dem sogenannten „6. Sinn“ des Menschen, der Propriozeption, welche die Wahrnehmung von Gleichgewicht, Eigenbewegung und Orientierung ermöglicht. Damit schafft sie eine Verbindung zwischen dem menschlichen Körper und dem architektonischen Raum, der in 3 Modi die Propriozeption anregen kann: direkt, durch Affordanz und durch Empathie. Die Arbeit versucht zu ergründen, welche Bedeutung diese architektonische Reizung des 6. Sinnes für die Konstituierung von Baukunst haben kann.

Stephan Joeris
Prof. Anselm Wagner
Institut für Architekturtheorie, Kunst- und Kulturwissenschaften (AKK)

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TODAY'S KYOU-MACHIYA – 今日の京町家 (KYOU NO KYOU-MACHIYA)

A contemporary study and re-imagining of the traditional Kyōto townhouse

A study into Kyoto townhouses (Kyou-machiya), which are currently in peril, as an archetype and potential inspiration for contemporary building practices. The aim is to create a hybrid inspired by traditional Japanese building practices and understanding of space, combining pre-fabrication and automation with conventional craftsmanship to reduce cost of production while keeping certain qualities alive. It will thus serve as a prototype and re-imagining of the Kyōto townhouse and hopefully provide an alternative between the current options of either, in rare cases, expensive renovation or, much more commonly practiced, tear down and replacement.

Max Frühwirt
Prof. Urs Hirschberg
Institute of Architecture and Media (IAM)

Institute of Urbanism

GRÜNDERZEITLICHE INNENHÖFE IN GRAZ

Graz—it has around 300,000 inhabitants and a surface area of 130 square kilometres. This city's special feature is well hidden and can only be visited by its occupants. It is the existence of inner courtyards that emerged in the Gründerzeit of the 19th century.

These oases of green space are the focus of this dissertation.

It takes as its starting point the urban growth in Graz during the Gründerzeit period and places emphasis on the legal conditions during the construction of the housing blocks. Close attention is paid to the haphazardness and design seen in the emergence of inner courtyards in the course of the urban planning process, which played an important role in this epoch. The relationship between profit gained through site speculation and the health of inhabitants quickly became an area of conflict, and remains so today.

This dissertation also links up with future developments as it prompts discussion on the current situation. Photo documentation makes it possible to focus on the situation of the inner courtyards in Graz today and to establish their potential for influencing quality of life in urban areas. A questionnaire provides a more detailed impression of the ways in which inner courtyards are currently used and a close examination of estate agent advertisements reveals the value of inner courtyards on the property market.

To summarise, this dissertation uses various indicators to highlight the quality and relevance of inner courtyards in Graz. Furthermore, a comparison of urbanisation in Graz with that in other cities makes it possible to identify relevant points that argue for or against development in inner courtyards. Examining the current significance of private inner-city green spaces in Graz makes it possible to depict a trend in their usage. This enables a consideration of possible measures for conserving these spaces. As urban green spaces are an important topic for the future, this dissertation aims to contribute to an improvement of living conditions in this

Petra Kubin
Prof. Aglaée Degros
Institute of Urbanism (STDB)

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LIVING ARCHITECTURE FOR HONEYBEES

An Ecosystem Effective Biohybrid Design Framework

Design research is moving closer and closer to the life sciences. Modern human's lifestyle and urbanisation practices affect Earth's ecosystems in unprecedented ways. Most biodiversity tipping points, which determine most planetary boundaries, have already been reached. Therefore, it is crucial that the efforts and resources put into technological or design inventions, and the anthropological perspectives these inventions exist in are shifted away from merely meeting human needs. Instead, these resources should flow towards assisting other forms of life in harsh habitats where they can no longer maintain their resilience. As a result, designers and decision-makers must also take responsibility and act, first by learning the fundamentals that sustain life and then by creating surroundings that can sustain all life, not just human life.

Asya Ilgün
 Prof. Urs Hirschberg
 Institute of Architecture and Media (IAM)
 Prof. Thomas Schmickl
 Artificial Life Lab, Uni Graz

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THE SENSITIVE CITY — THE MICROPOLITICAL TRANSFORMATION OF TERRITORIES

The thesis explores individual and civic participation in urbanization processes. Transformative micropolitics enables the expression and negotiation of individual desires in the social field, introducing flexible subjectivities into political processes to foster new forms of socio-political engagement. Lastly, the research asks: How can the micropolitical potential be harnessed for the autonomous self-organization of cities and neighborhoods?

Patricia Ventura
 Prof. Aglaée Degros
 Institute of Urbanism (STDB)

PhD Day

Guests

INSTITUTE OF URBANISM



Prof. Aglaée Degros

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Dipl.-Ing. B.Sc.
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Günter Getzinger

Guests

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Earth) (requested)



Prof. i.V. Ir. Bart
Lootsma (KIT)
(requested)

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Personal Notes

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Institut of Urbanism

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