

The **Department of Building Constructions** (**Épületszerkeztani Tanszék, BME ÉPSZERK**)

is an integral part of both the Faculty of Architecture and the education of architects at the University of Budapest. It is an intellectual heritage, community and research institution at the same time. Its members play an important role in practice, in research and development, in representing the profession, and in professional policy and legal issues. Building construction itself is the anatomy of buildings. It is an inherent part of architecture, because every architectural intention is manifested through building constructions. The design of building constructions is the elementary activity of the architect in daily practice. In the case of more complex larger buildings and in the case of more complicated problems, it becomes specialist planning and at the highest level, design becomes an applied science. Every practitioner needs construction theory, it is the cornerstone of architecture.

The **Institute for Acoustics and Building Physics** (**IABP Stuttgart**)

Focusing on the urgent challenges of climate change, the IABP is dedicated to the built urban environment and its transformation. Our knowledge is fed by many research and implementation projects. Our activities aim at exchange and transfer of knowledge, e.g. on resource efficient systems for new construction and renovation, at climate and culture responsive buildings, at healthy and green urban spaces.

Apart from academic teaching the transfer formats comprise (online) dialogue series with experts and stakeholders from civil society, but also symposia on specific topics and congresses on wider issues.

Building on knowledge – TRADITION & INNOVATION

Structure, physics and sustainability of buildings

Date:

Thursday, October 6, 2022, 9:00 to 17:00

Conference location:

H-1111 Budapest, Hungary
Müegyetem rakpart 3.
Eszter Pécsi event hall K I 95

Participation is free.

The number of participants is limited. To be able to register you for our event, we kindly ask you to return the registration form (see inside page) by e-mail, fax or by post by September 30, 2022. Upon receipt of your registration you will receive a confirmation.

Organizer:

Department of Building Constructions
Budapest University of Technology and Economics
Épületszerkeztani Tanszék, ÉPSZERK,
Budapesti Műszaki és Gazdaságtudományi Egyetem
Institute for Acoustics and Building Physics,
University of Stuttgart
Institut für Akustik und Bauphysik IABP
Universität Stuttgart



University of Stuttgart
Institute for Acoustics and
Building Physics



**Building on
knowledge**

**TRADITION &
INNOVATION**

Thursday,
October 6, 2022
Budapest



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www.epszerk.bme.hu

www.iabp.uni-stuttgart.de

Introduction

Structural-spatial design and urban land use belong to the essential transformative fields of action of cities. They are of particular importance for the sustainable development of new and mature cities and urban districts, as they have a decisive influence on the quality of life and environment, on identity and uniqueness, as well as on the participation in municipal communities.

Moreover, there are inseparable interrelationships between the design of buildings and their urban environment in terms of resource and energy efficiency, productivity, mobility and other issues.

In order to expand the scope for design and options for activities in terms of functionality and adaptability, quality and efficiency, the symposium offers a platform that brings together aspects and actors. It promotes the exchange and transfer of practical experience and research findings.

Scientists of the Universities of Budapest and Stuttgart from the fields of building construction, architecture, building physics and sustainable building will present current projects and findings at the symposium.

The sustainable combination of tradition and innovation, of new construction and modernization plays an important role.

You are very welcome, we are looking forward to your visit, your suggestions and impulses.

Program

- 9:00 **Reception and Registration**
- 9:30 **Welcome**
Dr. habil György Alföldi, Dean of the Faculty of Architecture, (BME Budapest)
Dr. Lajos Takács, Department of Building Constructions (ÉPSZERK Budapest)
- 10:00 **Building and Urban Physics**
Prof. Dr.-Ing. Philip Leistner, (IABP), Fraunhofer IBP
- 10:20 **Teaching and Research of Building Constructions in the Faculty of Architecture**
Dr. Dániel Bakonyi (ÉPSZERK Budapest)
- 10:40 **Urban (Green) Infrastructure – Potentials for People, Flora and Fauna**
Linda Meier, M. Sc. (IABP Stuttgart)
- 11:00 **Coffee Break**
- 11:30 **BAUHAUS in Ungarn**
Iván Nagy, DLA (Department of Explorative Architecture Budapest)
- 11:50 **Summer thermal protection using the example of traditional and modern buildings – yesterday, today and tomorrow**
Dipl.-Ing. Holger Röseler (IABP Stuttgart)
- 12:10 **Research and teaching activity of the environmental conscious workgroup**
Dr. Csilla Patkó (ÉPSZERK Budapest)
- 12:30 **Zonal Method of Flow Simulation Indoors**
Thomas Brunner, M.Sc. (IABP Stuttgart)
- 12:50 **Summary and Outlook**
Dr. Lajos Takács
- 13:00 **Lunch and Get Together**
- 15:00 **Student Lectures from Budapest and Stuttgart**
- 17:00 **End of the event** *Programs subject to change*

Registration

I register for the Symposium

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Structure, physics and sustainability of buildings

on Thursday, October 6, 2022 at the Technical University of Budapest:

Name: _____

first given name: _____

with _____ persons

Institution: _____

Post Code: _____

City: _____

Street, Nr.: _____

Place / Date: _____

Signature: _____

Annotation: _____

contact: Dr. Lajos Takács, Department of Building Constructions (ÉPSZERK Budapest)
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