Welcome to the research project BAMP!

The main focus of the LOEWE program of the State of Hesse aims to contribute to the systematic development of the advantages of the material paper for the building industry and architecture, to establish the prerequisites for a new economic field with an internationally visible focus in Hessen and to anchor it at the participating universities in the long term.

Paper as a building material

Natural materials such as wood or paper have been used in the building industry and architecture for thousands of years and still play an important role in modern building and interior construction, today. Examples range from plywood slabs and gypsum fibreboards to laminates. The available products are mainly based on the experience of the manufacturers. In this context, paper offers excellent potential for bio-based applications in the building industry and architecture. It is inexpensive to produce, consists mainly of renewable raw material, offers very good strength properties in relation to its own weight, can be produced as a sheet material but also with high porosity or even as a foam, and it is relatively easy to chemically functionalize.

Contact

Link to the project homepage: https://www.tu-darmstadt.de/bauenmitpapier/startseite_1/index.en.jsp

Venue

Georg Christoph Lichtenberg Haus
Dieburger Str. 241
D - 64287 Darmstadt

Organisation

Bauen mit Papier – BAMP!
Technische Universität Darmstadt
Hochschule Darmstadt
Technische Hochschule Mittelhessen

Prof. Dr.-Ing. Ulrich Knaack
Institute of Structural Mechanics and Design
Institut für Statik und Konstruktion

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Scientific objective

As part of the Building with Paper Conference, our guests will gain an insight into the world of constructing with alternative materials and the opportunity to discuss the potential and risks associated with the subject.

The event includes interesting presentations by our speakers from research and industry, and thus spans a broad field between theory and implementation.

All interested parties are cordially invited to participate in the lectures and discussions.

Registration

For your binding registration please use the following link: https://www.tu-darmstadt.de/bauenmitpapier/bc19/confreg.en.jsp

Please note, that the event is limited to 100 participants. In case of questions and suggestions please contact Mr. Nihat Kızıltoprak: registration@ismd.tu-darmstadt.de

Important dates

18.10.19      Registration deadline
07.11.19      Conference day

This Flyer is also digitally accessible: https://www.tu-darmstadt.de/bauenmitpapier/bc19/confinfo.en.jsp

Programme

Session 1

09:00  Registration

09:40  Welcome words
       Prof. Dr.-Ing. Samuel Schabel
       Prof. Dr.-Ing. Ulrich Knaack
       TU Darmstadt

10:00  Why We Love Plants
       Kasper Guldager Jensen
       3XN, GXN

10:20  The Cardboard Dome Revisited
       Prof. dr. ir. A.C.J.M. Eekhout
       Octatube

10:40  Demonstrator presentation
       Dr. eng. arch. Jerzy Łątka
       Wroclaw University of Science and Technology

11:00  Project presentation
       BAMP! – Building with paper
       Prof. Dr.-Ing. Samuel Schabel
       Prof. Dr.-Ing. Ulrich Knaack
       TU Darmstadt
       Hochschule Darmstadt
       Techn. Hochschule Mittelhessen

11:30  Poster Session

12:30  Lunch

Session 2

13:30  Sandwich Panels with a Core made of Corrugated Cardboard
       Dipl.-Ing. Aaron von der Heyden
       TU Darmstadt

Session 3

13:50  Re-Inventing Construction
       Prof.-Dipl.-Arch. Dirk E. Hebel
       Karlsruhe Institute of Technology

14:10  Project presentation
       KOMPAP - Energy-efficient construction by composite materials with paper
       Prof. Dr.-Ing. Jens Schneider
       TU Darmstadt

14:30  Demonstrator presentation 2
       Dr. eng. arch. Jerzy Łątka

15:00  Coffee break

15:30  Building with Cardboard - A great material with a poor image
       Dr. ing. Marcel Bilow
       TU Delft

15:50  How to Enhance Sustainable Material Use with Paper?
       Gert-Jan Rozemeijer, Msc.
       Adviesbureau Lüning B.V.

16:10  Project presentation
       Notunterkünfte aus Papier
       Martin Wilfinger, M.Sc. Alexander Wolf, M.A. (arch.)
       TU Darmstadt

16:30  Demonstrator presentation 3
       Dr. eng. arch. Jerzy Łątka

17:40  Closing speech
       Prof. Dr.-Ing. Ulrich Knaack
       TU Darmstadt