



BioMat/ITKE – Jun.-Prof. Dr.-Ing. Hanaa Dahy
University of Stuttgart • Keplerstraße 11 • 70174 Stuttgart

University of Stuttgart

Institute for Building Structures and Structural
Design

Faculty of Architecture and Urban Planning

Department

Bio-based Materials und Materials Cycles in
Architecture (**BioMat**)

Contact

Jun.-Prof. Dr.-Ing. Hanaa Dahy

h.dahy@itke.uni-stuttgart.de

Tel.: +49 711-685-83274

Fax: +49 711-685-82756

Date

Aktenzeichen

10.10.2017

Biocomposites for Architecture between Design and Fabrication- Current and Future Visions

Summary

Composites including biocomposites applications in architecture have been adopted from other industries like automotives and aerospace industries. Biocomposites applications in architecture have given wide possibilities to reach lots of potentials in the building industry, not only from a technical point of view, but from the sustainable development perspective.

In architecture however, the integration of design, aesthetics, biocomposites materials' properties control, fabricability, production technologies, scalability together with further other aspects should be all integrated and considered.

Scientists and architects from the University of Stuttgart have worked on these topics with different research and industrial partners to address different optimized solutions to reach towards more sustainable and reliable housing areas with higher quality and improved impact on the environment and the community.

In the lecture, current and future perspectives of all those intersected aspects will be highlighted and thoroughly declared. Different projects and products from research, development and industry will be presented and discussed.

Key Words

Biocomposites, Architecture, Fabrication, Architectural Design, Sustainable Development