Embedded in the wavelike landscape of the Bundesgartenschau grounds, the BUGA Fibre Pavilion offers visitors an astounding architectural experience and a glimpse of future construction. It builds on many years of biomimetic research in architecture at the Institute for Computational Design and Construction (ICD) and the Institute for Building Structures and Structural Design (ITKE) at the University of Stuttgart.

The pavilion demonstrates how combining cutting-edge computational technologies with constructional principles found in nature enables the development of truly novel and genuinely digital building systems. The pavilion’s load-bearing structure is robotically produced from advanced fibre composites only. This globally unique structure is not only highly effective and exceptionally lightweight, but it also provides a distinctive yet authentic architectural expression and an extraordinary spatial experience.

PICTURE CREDITS: Inside © ICD/ITKE, BUGA FIBRE PAVILION, 2019, photo by ICD/ITKE. Cover © Sophia Landsherr, spatial installation GS24, photo by Boris Miklautsch (Workstatt für Fotografie). IDG, Robotic fabrication for the Landesgartenschau, MBO2, Block seminar presentation of the Foam House, photo by Eliza Baka.

DESIGN: Kerstin C. Ottmar, Lale Ortak
DIGITAL MODEL CONSTRUCTION WORKSHOP

ANALOGUE MODEL CONSTRUCTION WORKSHOP

Geschwister-Scholl-Str. 24 D
CASINO IT CAAD LAB
FACULTY LIBRARY

photography and the »RoboLab« for producing computergenerated architectural models, wood and metal construction, sculpturing and

From day 1 students work in small groups in workshops under the individual supervision of experienced architects. This form of study perfectly complements the teaching provided in lectures, seminars and requires students to play an active role in projects. All students are free to use:

• the Faculty library, which has a large selection of journals and current literature.

• the »casino« (IT) computer pool with fully equipped computer work stations, lending facilities, training/tutorials, experimental lab, virtual reality system, virtual acoustics and plot service.

• the Faculty workshops for analogue and digital construction of architectural models, wood and metal construction, sculpturing and photography and the »RoboLab« for producing computergenerated prototypes and materials systems.

THE FACULTY

The study of architecture in Stuttgart goes back to the 19th century. In the early 20th century the »Stuttgart School« established new standards in both innovative and conventional building. After the Faculty was re-established in 1946 this heritage was revived and renewed to explore and pursue modern developments in architecture. Stuttgart has one of the biggest and most prestigious faculties of architecture in Germany – 16 institutes, headed by prominent experts in their fields – the study of architecture in Stuttgart.

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A dynamic design process is at the heart of this study program. A broad-based discussion of aesthetic concepts, technical innovation and architectural materials is supported by internationally renowned experts in these fields, who come from a large network of partners in industry, commerce and politics.

The Faculty has a long tradition of research. Building on a broad-based team of experts in their field, supported by a broad-based team of academics, the Faculty has been at the forefront of architectural and urban planning research. Building on the achievements of the »Stuttgart School« the Faculty’s research is increasingly characterized through the evidence of international urban planning. It seeks to train experts and decision-makers to face the complex and responsible task of creating a liveable future. They respond to economic, social and technical change, developing visions and plans for the world of tomorrow. Their solutions which take account of all the parameters.

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For further information and dates please visit our website: www.architektur.uni-stuttgart.de