Presse release

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Research on “bio-based construction” – with fischer

fischer establishes second endowed professorship

fischerwerke GmbH & Co. KG
Corporate Communications

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Renowned scientist Prof. Benjamin Kromoser has been researching “bio-based construction” since 1st February 2018 at the Vienna University of Natural Resources and Life Sciences with the support of fischer. fischer is therefore involved with two research projects running in parallel that are unique worldwide. The Group of Companies has already been financing the endowed professorship “innovative strengthening methods with fixings” at the University of Stuttgart since 1st January 2017.

The new professorship in Vienna is using nature as its role model for the design, draft and construction of structural systems and buildings. Innovative and natural construction materials are also being researched while taking resource and energy efficiency into consideration. “Protecting resources to the benefit of people and the environment is of primary importance”, emphasises Prof. Klaus Fischer, owner of the fischer Group of Companies. “The new professorship in Vienna is creating the technical prerequisites for this”. The establishment of a new subject of study and research on “bio-based construction” is being arranged at the relevant institute of structural engineering for the long term.

“Natural resources are our greatest asset, and they are only available in limited quantities. They are currently being used in

far greater quantities than the environment can tolerate in the long term", emphasises Prof. Kromoser. "As part of my research, I want to bridge the idea of using resources in the best possible way by applying innovative construction methods, natural construction materials and digital production methods in the building industry".

Up until now, Prof. Kromoser was a doctoral student and subsequently a post-graduate student at the Institute of Structural Engineering at the Technical University of Vienna. He is the inventor and/or co-inventor of 13 patents. In the past, the 30-year old already carried out successful research on innovative methods and materials for sustainable construction.

In 2016, Prof. Kromoser worked at the Institute for Lightweight Structures and Conceptual Design (ILEK) at the University of Stuttgart for six months together with Prof. Werner Sobek, the founder of the Werner Sobek Group, an architecture firm from Stuttgart that focuses on engineering, design and sustainability. Prof. Sobek and Prof. Klaus Fischer, owner of the fischer Group of Companies, founded the AH Aktiv-Haus GmbH together in 2016. The company develops and distributes buildings in a modular method of construction – the "aktivhäuser" ("active houses") – which are based on the so-called triple-zero principle.

In parallel to the "bio-based construction" professorship in Vienna, fischer is already financing the entire "innovative strengthening methods with fixings" professorship at the Institute of Construction Materials at the University of Stuttgart for a six-year period. The focus is placed on considerations of quality and durability in renovation and strengthening methods for structural and civil engineering. The renowned Indian scientist Prof. Akanshu Sharma has held the professorship

since January 2017 and has been successfully researching the topic.

Image captions:

fischer supports Prof. Benjamin Kromoser in researching “bio-based construction”.

Image: fischer

The fischer group of companies

The fischer group of companies, headquartered in Waldachtal in Germany's Northern Black Forest, generated sales of 755 million Euros in 2016 with a worldwide staff of 4,600 employees. The family-owned enterprise operates 46 of its companies in 34 countries and exports to more than 100 countries. It includes the five divisions: fischer fixing systems, fischer automotive systems, fischertechnik, fischer consulting and LNT Automation.

fischer fixing systems is the technological market leader in important areas of fixing technology. fischer offers products that deliver technical perfection to a wide range of customers, from do-it-yourselfers to craftsmen to key account partners.

fischer automotive systems manufactures high-quality parts for car interiors. The company is highly competent in the plastics processing segment and is an important partner for the automotive industry. fischer automotive systems produces air vents, cup holders, trays and multi-function components.

fischertechnik is active both in the construction kit and in the educational toy sector. As one of the last toy makers, fischertechnik develops and produces exclusively in Germany.

fischer consulting evolved from the competence and skills developed in the company itself, among these the fischer ProcessSystem with its central aim of permanent and continuous improvement for the ultimate benefit of the customer. fischer consulting advises small and medium-sized businesses, government agencies and major companies on their way towards lean and efficient processes.

LNT Automation develops and manufactures custom electronic solutions. The company also develops, produces and distributes custom and capacitive touch systems such as multi-touch solutions made of glass and the corresponding controller units. All electronics are manufactured in-house.

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