

## **OSKAR VON MILLER FORUM**

Press release

### **Knowledge Architecture: Tools and Spaces for Innovation**

**A lecture by Jörg Rainer Noennig, WISSENSARCHITEKTUR Laboratory of Knowledge Architecture (TU Dresden) on 21 January 2021 at 6:30 p.m. at the Oskar von Miller Forum**

Winston Churchill anticipated the key notion of knowledge architecture when he famously said, "We shape our buildings; thereafter they shape us." By designing our spatial environment, we concurrently – often unintentionally – define our state of mind, our modes of communication and cooperation. While there is ample evidence of the effects of architectural environments on cognitive processes, the relationship between spatial design and knowledge work has not been established in terms of a "design theory." Filling this gap is the objective of research in knowledge architecture – as well as answering the question: How can we create spaces that enable knowledge creation?

The lecture explores the architectural tools and spatial model solutions that can assist in the various forms of knowledge work – such as research, learning or creativity. Projects of the TU Dresden Laboratory of Knowledge Architecture illustrate the broad spectrum of applications ranging from small-scale laboratory spaces to regional research and technology clusters. In addition, novel digital instruments will be presented that help leverage collective creativity and artificial intelligence to address complex design challenges.

The **WISSENSARCHITEKTUR Laboratory of Knowledge Architecture** at the TU Dresden is an interdisciplinary think tank at the intersection of design, engineering and social sciences. Its research activities include the interplay between structural aspects both of physical and digital spaces and the processes involved in knowledge work. The lab has developed new visualisation and modelling tools to be used both in fundamental scientific research and for creativity management in research clusters and technology enterprises.

### **About Rainer Noennig**

Prof. Dr.-Ing. Jörg Rainer Noennig leads the WISSENSARCHITEKTUR Laboratory of Knowledge Architecture at the TU Dresden and is Professor of Digital City Science at the Hafencity University Hamburg. Between 1998 and 2001, he worked as an architect in Tokyo, including posts at the Ishiyama Experimental Underground Architecture Factory and Arata Isozaki & Associates. In 2001, he became a research assistant at the TU Dresden, where he was appointed Junior Professor of Knowledge Architecture (2009-2015). He was a guest professor at the Università degli Studi dell'Aquila, at the ISEN Toulon, at the Voronezh Technical University and at the Toyo University in Tokyo. He has published several books and more than 150 scientific papers and essays and received various scholarships and awards, such as the Grand Prix of the European Association of Architectural Education (EAAE).