Principles of (material) optimization

Jan Knippers is a consulting structural engineer interested in advanced timber constructions for segregated woods or multi-story buildings. Jan has been Head of ITKE at the University of Stuttgart since 2000, and Deputy Head of the Cluster of Excellence “Integrative Computational Design and Construction” and Promotor for Research since 1999. From 2014 to 2017, he coordinated the Collaborative Research Center TRR “Biological Design and Integrative Structures” of the Universities of Stuttgart, Technology London, and via live stream from Venice. He was awarded the Perret Prize for 2021. In 2021 and via live stream from Venice, he was awarded the RIBA Charles Jencks Award and the Auguste Perret Prize for 2021.

Ideas and tools for a circular building culture

Johann Fallerer has been teaching and conducting research at the Institute of Water Quality and Resource Management at the University of Vienna since 2012 to 2020. He led a Christian Doppler Laboratory on the topic of anthropogenic resources, in the context of which, among other things, the extraction of potential secondary resources in building construction and civil engineering was investigated. In addition to resource topics, Johann Fallerer is also intensely involved in climate change management processes (modelling and simulation) and in the question of the extent to which common waste incineration processes might prove to be effective for Europe could also be exported to economically less developed countries.

Rensoud Harrigan is an architect, member of Rotor and co-founder of Rotor Deconstruction. He has taught at the RCA London and was a visiting professor at the Social Design department at the Angewandte. Rotor was founded in 2005 as a group of architects, designers and co-founder of Rotor Deconstruction. He has taught architecture and urban management at various international universities, and she was the Drakepoint Visiting Professor at Yale University in spring 2020. She is currently a professor at Potsdam School of Architecture and Design in Germany. She received the 2021 RIBA Charles Jencks Award and the Auguste Perret Prize for 2021.

The concept of productive redundancy

Keller Easterling is a designer, writer and professor at Yale University. Her books include Medium Design (Yale 2020), Extrastatecraft: The Power of Infra-structure Space (Verso, 2014), Subtraction (Verso, 2014), Global Architecture and its Political Maquillage (MIT, 2005), and Organization, Highways and Strata (MIT, 1999). She is also the co-author (with Richard Polt) of Cut It Home, a laserdisc/DVD of US suburbs from 1934 to 1960. Keller lectures and exhibits internationally. Her writing and research was included in the 2014 and 2018 Venice Bienale. She was named a US Artist Fellow in Architecture and Design in 2014.

Erich Kotroczo is the founder of the internationally acclaimed conceptual company BIK Studio for Information Design GmbH and co-founder of the software platform BIM Spot GmbH. For over the last 20 years, he has gathered expertise in technology and digitalisation in the AEC field, which he shares in his guest lectures. After completing a master’s apprenticeship and graduating from technical college (HTL) with a master’s degree (HTL) in 1998, Erich studied architecture at the Vienna University of Technology (TU Wien) in Austria and Shenzhen University in China.

Theory and practice

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Responsible use of resources is an essential aspect of a future-oriented building culture. This means continuing to use existing buildings for as long as possible and radically reusing components and materials. But what about the building stock of tomorrow: How can we design new structures intelligently? Should we follow the principle of reduction to achieve the intended purpose with minimal material means? Or should we rather risk a certain degree of redundancy to gain robustness in the face of changing conditions?

These questions are the focus of the second Circular Strategies Symposium titled “Optimization or Versatility?”. International experts from the fields of architecture, theory, science and technology will share their thoughts and discuss ideas and methods that have the power to change the future of architectural culture.

**Programme**

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<td>Intro</td>
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<td>10:00-10:50</td>
<td>Principles of (material) optimization</td>
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<td><strong>Ideas and tools for a circular building culture</strong></td>
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<td><strong>Theory and practice</strong></td>
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<td>11:00-11:50</td>
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<td>11:50-12:00</td>
<td>Keynote lecture: Jan Knippers</td>
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<td>12:00-12:10</td>
<td>Q&amp;A / discussion</td>
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<td>12:10-12:30</td>
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<td><strong>Theory and practice</strong></td>
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<td>15:00-16:00</td>
<td><strong>The concept of productive redundancy</strong></td>
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**Organisation and curators**

Karin Reich and Lukas Akre, University of Applied Arts Vienna, moderated by Wojciech Czaja, author and journalist, Vienna.

**The Event will be held in English**

University of Applied Arts Vienna, Oskar-Kokoschka-Platz 2, 1090 Vienna

**Covid-19 regulations**

Registration is required via www.pretix.eu/angewandte/CSS.

Participants must show proof of either being vaccinated, tested or recovered.

FFP2-masks must be worn in all enclosed spaces.

Further Information: buildingconstruction.at

Live stream: https://youtu.be/KarA

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