

IntCDC Conference 2022

# Integrative Computational Design and Construction for Future-Proof Architecture

**Wednesday, 12 October 2022** 18:00  
**Conference Opening**  
**Reception and Get-Together** 22:00

IntCDC Laboratory for Large-Scale Construction Robotics (LCRL)  
Handwerkstr. 25, 71336 Waiblingen-Hohenacker

**Thursday, 13 October 2022** 08:30  
**Conference** 18:30

University of Stuttgart, Keplerstraße 17, Building K2,  
Underground Lecture Hall 17.01 (UG), 70174 Stuttgart

## Wednesday, 12 October 2022

- 18 : 00 **IntCDC Conference**  
– 22 : 00 **Opening Reception and Get-Together at the IntCDC Laboratory for Large-Scale Construction Robotics (LCRL)**  
Social Event and Sneak Peek of IntCDC's Prefabrication Lab and Cyber-Physical Building Site

## Thursday, 13 October 2022

- 08 : 30 **IntCDC Conference Registration & Get-Together**  
09 : 00 **Welcome by Achim Menges**  
Spokesperson of the Cluster of Excellence  
“Integrative Computational Design and Construction for Architecture” (IntCDC)  
09 : 05 **Welcome address by Nicole Razavi**  
Minister for Regional Development and Housing Baden-Württemberg  
09 : 15 **Welcome address by Wolfram Ressel**  
Rector of the University of Stuttgart

- Introduction of Catherine De Wolf by Cordula Kropp  
09 : 25 **Opening Keynote by Catherine De Wolf, ETH Zürich**  
“This is not a pipe / beam / floor — digitalisation for circular construction.”

- Introduction of Cordula Kropp  
09 : 55 **Lecture by Cordula Kropp, University of Stuttgart**

- 10 : 10 **Session 1**  
**Towards Future-Proof Timber Architecture**  
Computational co-design of next-generation timber building systems

Session Leader Achim Menges  
Keynote Speakers Cordula Kropp, Philip Leistner & Achim Menges

- Speakers Simon Aicher & Alexander Verl  
11 : 00 Roundtable / Q&A led by Manfred Bischoff & Serena Gambarelli

- 11 : 20 **Coffee Break**

- 11 : 50 **Session 2**  
**The Future of Concrete Construction: Light and Sustainable**  
Computational co-design of digitally fabricated concrete building systems

Session Leader Lucio Blandini  
Keynote Speakers Werner Sobek & Lucio Blandini

- Speakers Harald Garrecht & Klaus Jan Philipp  
12 : 30 Roundtable / Q&A led by Ulrike Kuhlmann & Marie Davidová

- 12 : 50 **Lunch Break**

- 13 : 50 **Session 3**  
**Fibrous Structures for Resource-Efficient Building Systems of the Future**  
Computational co-design of digitally fabricated fibre composite building systems

Session Leader Jan Knippers  
Keynote Speakers Hanaa Dahy, Jan Knippers & Daniel Weiskopf

- Speakers Peter Middendorf  
14 : 40 Roundtable / Q&A led by Götz T. Gresser

- 15 : 00 **Coffee Break**

- 15 : 30 **Session 4**  
**Cyber-Physical Construction of Co-Design**  
Towards autonomous operation on the construction site

Session Leader Oliver Sawodny  
Keynote Speakers Melanie Herschel, Katherine J. Kuchenbecker, Oliver Sawodny & Metin Sitti

- Speakers Uwe Sörgel & Thomas Wortmann  
16 : 20 Roundtable / Q&A led by Thomas Bauernhansl & Kuno Kurzhals

- 16 : 40 Introduction of Georg Vrachliotis by Achim Menges  
**Closing Keynote by Georg Vrachliotis, TU Delft**  
“Reinventing (the) Building”

- 17 : 10 **Closing Remarks by Achim Menges**

- 17 : 15 **Get-Together**

- 18 : 30 **End of Event**