**Digital Fabrication with Concrete**

In the last years, digital fabrication with cement-based materials has raised a major interest in the architecture and construction industry. The research activities in this field have increased exponentially and various sophisticated solutions for concrete 3D printing are being developed worldwide. On behalf of DAfStb and DBV, we are pleased to invite you to an international workshop on digital fabrication with concrete. The workshop is organised in collaboration with the RILEM Technical Committee “Digital Fabrication of Cementitious Materials” and brings together civil engineers, material scientists and top researchers from academia and industry to present their latest work in this emerging field. Ten speakers from six countries will present the current technical developments and latest case studies from across Europe, and discuss the opportunities and challenges for the practical applications of these promising technologies.

**30th of January 2020, 10:00 AM – 05:30 PM**

**Golden Tulip Berlin – Hotel Hamburg, Landgrafenstraße 4, 10787 Berlin**

(welcome coffee from 09:30 AM)

The workshop language is English.



**Detailed information:**

<https://www.betonverein.de/Veranstaltungen/Digital_Fabrication_with_Concrete_2020.pdf>

**Registration:**

<https://www.betonverein.de/veranstaltung_anmelden.php?id=702>

**Registration fee:**

179 € for RILEM, DBV or DAfStb members, 229 € for non-members

**PROGRAMME**

**Moderation:** Dr.-Ing. Lars Meyer, DBV, Berlin

**Welcome and opening**Dr.-Ing. Matthias Jacob, Chair of DBV Board, Implenia Hochbau GmbH, Germany

**Digital Fabrication with Concrete – Introduction and Overview**Dr.-Ing. Ksenija Vasilic, DBV, Germany  
  
**Particle-bed 3D Printing in Concrete Construction – Possibilities and Challenges**Prof. Dr.-Ing. Dirk Lowke, Technische Universität Braunschweig, Germany  
 **Extrusion-based Concrete 3D Printing**Dr. Freek Bos, Eindhoven University of Technology, the Netherlands  
  
**Shotcrete 3D Printing (SC3DP) – 3D Printing of Large-scale Concrete Elements**  
Jun.-Prof. Dr.-Ing. Norman Hack, Technische Universität Braunschweig, Germany   
  
**Digital Concrete Research at ETH Zürich**Dr. Timothy Wangler, ETH Zürich, Switzerland  
  
**Rheological Requirements for Printable Concretes**Prof. Nicolas Roussel, IFSTTAR, East Paris University, France  
  
**Integration of Reinforcement in Concrete 3D Printed Components and Structures**Prof. Dr.-Ing. Viktor Mechtcherine, Technische Universität Dresden, Germany  
  
**3D Concrete Printing: Ideas to Reality**Dr. Richard Buswell, Loughborough University, United Kingdom  
 **The New Ways of Future Building – Industrial Usage of 3D Printing with Concrete**Raphael Zöller M. Sc., Firmengruppe Max Bögl, Germany  
  
**A Broader Perspective on 3D Construction Printing – a Practitioner’s Point of View**Henrik Lund-Nielsen MBA and Dr. Fabian Meyer-Brötz, COBOD International A/S, Denmark/Germany  
  
**Concluding presentation: German Way Forward**Dr.-Ing. Udo Wiens, DAfStb, Germany