

## Program

### Tuesday, 22. September 2020

**09:00 – 09:05 | Opening** | Frank Schladitz, C<sup>3</sup> – Carbon Concrete Composite e. V.

#### 09:05 – 10:05 | Calculation

- **Strut-and-Tie Models for Carbon Reinforced Concrete Members** | J.-P. Schulze-Ardey, RWTH Aachen
- **Mechanical model for the calculation of the splitting forces in textile-reinforced concrete** | P. Preinstorfer, TU Wien, Austria
- **Crack width design for carbon reinforced concrete in the serviceability limit state Fabric-formed Concrete Shells** | K. Schneider, TU Dresden

#### 10:20 – 11:20 | Components

- **Effect of tension forces on shear capacity of thin slab segments** | J. Bielak & H. Becks, RWTH Aachen
- **Bearing Behavior of CarbonTextile-Reinforced Concrete I-Sections Beams** | K. Goliath, Pontifical Catholic University of Rio de Janeiro, Brazil
- **Corrosion tests for hybrid construction** | M. May & J. Triebert, TU Dresden & Institut für Korrosionsschutz Dresden

#### 13:00 – 14:00 | New Building

- **n.n.** | n.n.
- **CFRP reinforced concrete for the footbridge Rosensteinsteig II** | M. Rettinger, TU Berlin
- **Prestressing as a means for economical and resource-saving construction with carbon reinforced concrete** | F. Jesse, Hentschke Bau GmbH

#### 14:15 – 15:15 | New Building

- **Concrete reinforcement for applications under tropical conditions** | M. Raina, Raina Industries Private Limited, Mumbai, India
- **Ecological balance of the bridge in Ebingen** | S. Rempel, solidian GmbH
- **Development and planning of the first carbon reinforced concrete building worldwide – carbon reinforced concrete in everyday planning** | M. Kupke & H. Ritter, AIB GmbH & Assmann Beraten + Planen AG

#### 15:45 – 16:45 | Online Seminar

**Static design of load-bearing components with the CPC – carbon reinforced concrete panels in Germany** | **Presentation of a design concept and application examples** | J. Kurath & M. Brunner, ZHAW Zürich, Switzerland

#### 17:00 – 18:00 | Online Seminar

**Dimensioning of a realized carbon reinforced concrete bridge** | S. Rempel, HS Augsburg

#### 18.30 – 20.00 Uhr | Panel Discussion – live

**Subject: Status of the carbon reinforced concrete construction method**

Legend: ■ = User presentations ■ = Scientific presentations

*Subject to changes. Issued: August 2020*

## Program

### Wednesday, 23. September 2020

#### 09:00 – 10:00 | Refurbishment

- **Bridge reinforcement with textile concrete – preparations for a pilot project in Austria** | C. Waltl, Universität Innsbruck, Austria
- **Strengthening of bridges with carbon reinforced concrete for prestressing steel prone to stress corrosion cracking** | O. Steinbock, cbing Curbach Bötsche Ingenieurpartner
- **Carbon Reinforced Concrete for bridges – current approvals for strengthening and new construction** | S. May, CARBOCON GmbH

#### 10:15 – 11:15 | Components

- **Innovative sewer hoods made of carbon reinforced concrete for district heating** | J. Kortmann, TU Dresden
- **Application of Prestressed CFRP Textiles for the Development of Thin-Walled Concrete Structural Elements** | J. P. Osman Letelier & T. Lenz, TU Berlin & Ginkgo Projektentwicklung GmbH
- **Thin composite material facades thermally separated during the technical implementation in the precast plant – a case study** | A. Decker, Schöck Bauteile GmbH

#### 12:30 – 13:30 | Reinforcement

- **Carbon Textile Reinforced Concrete at ambient and high temperatures** | P. Kapsalis, Vrije Universiteit Brussels, Belgium
- **Bond behavior of carbon rebars and concrete** | A. Schumann CARBOCON GmbH
- **Positioning aids for textile reinforcements** | K. Mandel & M. Lindner, TU Chemnitz

#### 13:45 – 14:45 | Components

- **Durability of FRP as internal reinforcement in concrete structures – current test methods and approaches** | N. Bies, TU Kaiserslautern
- **Shear Strengthening of RCT-Beams with CRC** | S. Bergmann, RWTH Aachen
- **What can we learn from a life cycle sustainability assessment: the case of two carbon concrete composite structures** | C. Scope, TU Dresden

#### 15:00 – 16:00 | Online Seminar

**Restoration with carbon reinforced concrete | boundary conditions for good planning and execution** | A. al Jamous, Jamous Engineer Consulting

#### 16:00 | C<sup>3</sup> General Assembly (not public and password-protected)

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