

Participation fee

The registration/participation fee per person for the 7th WTA Colloquium – Maintenance of Concrete Buildings*:

| | |
|------------------------------------|-----------------|
| Guest | 180.00 € |
| WTA member | 120.00 € |
| Student in initial training | 20.00 € |

A limited number of students from TU Delft can participate free of charge. Registration is required.

**Price includes catering during the Colloquium and lunch.*

Registration

Registration can be done via the registration form on the website.



<https://www.wta-international.org/de/veranstaltungen/7th-wta-colloquium-maintenance-of-concrete-buildings/>

An invoice will be sent to the participant as confirmation of the registration.

Venue

Delft University of Technology
Aula Conference Centre
Commissiekamer 3
2628 CC Delft
The Netherlands

Organizing committee

Dr. Barbara Lubelli, E-mail: b.lubelli@tudelft.nl
Susanne Schneider, E-mail: susanne.schneider@wta.de

Cancellation

If the registration is cancelled before the registration deadline, a processing fee of 80.00 € will be charged. For cancellations after the registration deadline, the full participation fee is due.

Guarantor

WTA – International, TC 5 Concrete
www.wta-international.org

Language

Colloquium language will be English.

The 7th WTA Colloquium – Maintenance of Concrete Buildings

Strategies for the Conservation of Historic Concrete Structures

June 10th, 2022, Delft



Organisers:

International Association for Science and Technology of Building Maintenance and Monument Preservation – WTA International and the national group WTA NL-VL TU Delft, Faculty of Architecture and the Built Environment, in collaboration with the JPI-CH Project CONSECH20

Scientific committee:

Prof. Dr.-Ing. Rolf P. Gieler
Prof. Dr.-Ing. Dipl. Chem. Andrea Osburg
Dr. Barbara Lubelli
Dr. ir. Wido Quist

Foreword

Concrete heritage buildings from the 20th century are at risk, due to the absence of recognition of the historic values of these buildings as well as to the lack of knowledge of the specific characteristics of historic concrete structures. Frequently, solutions developed for repair of contemporary structures are applied to historic concrete buildings, resulting in interventions which are neither compatible nor durable.

The scope of the lectures includes the possibilities of new investigation methods and procedures of condition assessment, the application of innovative materials and the use of heritage precast concrete elements. In addition, main results from relevant case studies are presented.

The Colloquium aims at providing building owners, employees from planning and engineering offices, construction companies, concrete experts, architects and representatives of authorities, with the latest developments in the field of conservation of concrete historic buildings, as resulting from practice and from international research projects.

On behalf of the organizing team, the members of WTA - International (TC5 Concrete) and of the JPI-CH CONSECH20 project, we cordially invite you to the 7th Colloquium WTA - Strategies for the Conservation of Historic Concrete Buildings and Structures.

We are looking forward to meeting you in Delft!

Prof. Dr.-Ing. Rolf P. Gieler
Prof. Dr.-Ing. Dipl. Chem. Andrea Osburg
Dr. Barbara Lubelli
Dr. ir. Wido Quist

Program

- 08:30** *Credentials and registration*
- 09:00** **Welcome and introduction**
Dr. Barbara Lubelli
TU Delft
Prof. Dr. -Ing. Rolf Gieler
Chairman of WTA TC5 Concrete,
Ingenieur- und Sachverständigenbüro, Fulda
- 09:15** **Overview of the project CONSECH20: CONSErvation of 20th century concrete Cultural Heritage in urban changing environments**
Dr. Christiana Nunes
ITAM, Prague
- 09:45** **Innovative materials and techniques for the conservation of the 20th century concrete-based cultural heritage**
Prof. Dr. Maria J. Mosquera
University of Cádiz
- 10:15** *Coffee break*
- 10:45** **Textile reinforced concrete - Opportunities for the restoration of historical concrete structures**
Univ.-Prof. Dr.-Ing. habil. Jeanette Orlowsky
Werkstoffe des Bauwesens,
Technische Universität Dortmund
- 11:15** **Good vs poor intervention practices on historic concrete structures in Cyprus**
Dr. Antroula Georgiou
University of Cyprus
- 11:45** *Lunch break*
During the lunch break two activities will be offered:
- 1) Demonstration on the Monument Diagnosis and Conservation System (MDCS)**
Dott. Silvia Naldini
TU Delft
- 2) Guided tour through the Aula building**
Dr. ir. Wido Quist
TU Delft
- 13:15** **High-resolution digital twins for cloud-based ai-assisted condition assessment of structures**
Prof. Dr. Guido Morgenthal
Bauhaus-Universität Weimar,
Fakultät Bauingenieurwesen
Prof. Dr.-Ing. Volker Rodehorst
Bauhaus-Universität Weimar,
Fakultät Bauingenieurwesen
- 13:45** **Reinforced concrete architectures of the first half of the 20th-century in Genoa: a comparison case studies**
Dr. Federica Pompeiano
University of Genova
- 14:15** **Why is there a crack? Modern inspection methods for old concrete**
Dr. Frank Lehmann
Materials Testing Institute University of Stuttgart
- 14:45** *Coffee break*
- 15:15** **Challenges of pre-cast concrete heritage – Examples from the Netherlands**
Dr.-Ing. Herdis Heinemann
TNO, Delft
- 15:45** **From theory to practice: Degradation patterns and conservation strategies in concrete buildings built until the 1960s in the Netherlands**
Dr. Gabriel Pardo Redondo
TU Delft
- 16:15** **Summary and conclusion**
Dr. Barbara Lubelli
TU Delft
- 16:30** *End of the event*