

Registration/Participation fee

Registration is realised via the registration form below. Please completed forms send by e-mail. A confirmation of registration is carried out by sending the invoice to the organizers.

The Registration/Participation fee per person for the 5th WTA Colloquium – Maintenance of Concrete Buildings*:

Ph.D. candidate	20 €
WTA member/not WTA member	70 €/80 €
Institution/Company WTA member	80 €
Institution/Company not WTA member	100 €

*Price includes catering during the Colloquium and lunch.

Please send the registration form to
melichar.j@fce.vutbr.cz or
kocianova.m@fce.vutbr.cz

for the 5th WTA Colloquium – Maintenance of
Concrete Buildings to April 30th, 2018

Name, surname, title

Institution/Company

Address

Postcode / town

Telephone, e-mail

Place and date

Signature

WTA member Student

Venue

Faculty of Civil Engineering
Brno University of Technology
Veveri 331/95
602 00 Brno
Czech Republic



Topics of Colloquium

- New rehabilitation materials and technologies
- Protection of concrete and reinforced structures
- Inspection and maintenance of reinforced concrete structure

Individual transport

Airport Vienna International Airport (Schwechat)
+ 2,5 hrs by bus.
Prague Airport (Vaclav Havel Airport, Prague)
+ 2,5 hrs by bus.
Brno City Transport Company - Main railway station,
main Bus station Zvonarka, tram 12 – stop
Konecneho square.

Guarantor

WTA – International, TC5 Concrete
www.wta-international.org

Language

Colloquium language will be English and Czech.
Simultaneous translation will be provided.

The 5th WTA Colloquium – Maintenance of Concrete Buildings

Latest discoveries in concrete
remediation

June 19th, 2018, Brno



Organisers

International Association for Science and
Technology of Building Maintenance and
Monument Preservation – WTA International
and Faculty of Civil Engineering BUT together
with Concrete Structures Repair Association

Scientific committee

Prof. Ing. Rostislav Drochytka, CSc., MBA
Prof. Dr.-Ing. Rolf P. Gieler
Prof. Dr.-Ing. Dipl. Chem. Andrea Osburg

Organizing committee

Ing. Magdalena Kocianova
E-mail: kocianova.m@fce.vutbr.cz
Ing. Jindrich Melichar
E-mail: melichar.j@fce.vutbr.cz

Foreword

Ladies and Gentlemen,

realization of new reinforced concrete structures is the common goal of builders, designers and contractors of new buildings. In order to ensure this goal in the long term, a corresponding maintenance effort is required for existing buildings. In addition to knowledge of materials and their use in constructions, as well as experience with their planning and monitoring, it is essential to ensure their maintenance and flawless planning according to existing standards and regulations.

For historical buildings, standard procedures can often not be applied without restrictions for monument preservation reasons. For this reason, in addition to the early integration of historical monuments preservation, intensive coordination between those responsible at each stage of the project is required. That is why the Colloquium should offer answers and solutions to the owners of listed buildings, employees from planning and engineering offices, construction companies and manufacturing plants, experts, architects and representatives of authorities in accordance to the latest discoveries in concrete remediation.

On behalf of the organizing team and the members of WTA - International (TC5 Concrete), we cordially invite you to the 5th Colloquium WTA - Maintenance of Concrete Buildings and we are looking forward to meeting you in Brno.

Prof. Ing. Rostislav Drochytka, CSc., MBA

Assoc. prof. Ing. Jiri Bydzovsky, CSc.

Prof. Dr. -Ing. Rolf P. Gieler

Prof. Dr. -Ing. Dipl. Chem. Andrea Osburg

Prof. Dr. -Ing. Ralf Arndt

Dr. -Ing. Kay-Andre Bode

Ing. Ales Jakubik

Program

08:00 *Registration, coffee*

08:30 **Opening speech**

*Prof. Ing. Rostislav Drochytka, CSc., MBA
Chairman of WTA CZ*

08:40 **BIM technologies in construction design and execution**

*Ing. Josef Zak, Ph.D.,
CTU in Prague, Faculty of civil engineering*

09:10 **Non-destructive testing of Reinforced Concrete Structures**

*Prof. Dr. -Ing. Ralf W. Arndt,
Fachhochschule Erfurt*

09:40 **Engineer-technical proofs of the life span of reinforced concrete structures according to future sets of rules – experiences and examples**

*Prof. Dr. -Ing. Rolf Gieler,
Chairman of WTA TC5 Concrete,
Ingenieur- und Sachverständigenbüro, Fulda*

10:10 *Coffee break*

10:45 **Remediation of Wind Turbine Generator Foundations**

*Dr. -Ing. Kay-Andre Bode,
Vestas Central Europe, Hamburg*

11:15 **Causes of failures of hanging bridges and prestressed bridges**

*Doc. Ing. Ladislav Klusacek, CSc.
Brno University of Technology, Faculty of
Civil Engineering*

11:45 **Diagnostic survey of the Liben Bridge in Prague**

*Doc. Ing. Jiří Kolísko, Ph.D.,
Klokner Institute CTU in Prague*

12:15 *Lunch*

13:15 **Effect of frost resistance of concrete and alkaline reaction of aggregate in concrete on the strategy of remediation of RF-concrete structures**

*Doc. Ing. Jiri Dohnalek, CSc.,
BETONCONSULT, s.r.o.*

13:45 **Public investors attitude to financing repairs and maintenance of building constructions**

*JUDr. Ing. Zdenek Dufek, Ph.D.,
Brno University of Technology, Faculty of
Civil Engineering*

14:15 **Experiences with structures of energy production**

*Dipl.-Ing. Reinhard Martin
MC-Bauchemie Müller GmbH & Co. KG*

14:45 **New possibilities of remediation materials**

*Prof. Ing. Rostislav Drochytka, CSc., MBA,
Brno University of Technology, Faculty of
Civil Engineering*

15:15 **Application of corrosion monitoring and inclusion of the upraised data for the calculated life span**

*Prof. Dr. -Ing. Gesa Kapteina,
HafenCity Universität Hamburg*

15:45 **Effect of hydration kinetics on long-term performance of concrete structures**

*Doc. Ing. Vit Smilauer, Ph.D.,
CTU in Prague, Faculty of civil engineering*

16:10 **Summary and conclusion**

*Prof. Ing. Rostislav Drochytka, CSc., MBA
Chairman of WTA CZ*

16:15 *End of the event*