

ICCC 2019 BODIES

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IMPORTANT DATES

Final date for forwarding abstracts	November 30, 2017
Approval of abstracts and notification	April, 2018
Final date for forwarding papers	September, 2018
Approval of papers and designation of speakers	February, 2019

SUBMISSION OF ABSTRACTS

Abstracts for proposed papers for presentation must meet conditions published on website www.iccc2019.org and can be sent only via this website.

ORGANIZERS

Organized by

SVAZ VÝROBCŮ CEMENTU ČR
Czech Cement Association



RESEARCH INSTITUTE OF BINDING MATERIALS PRAGUE, LTD.

With the collaboration of

GUARANT
INTERNATIONAL

CONGRESS SECRETARIAT

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Second Announcement and Call for Papers

Prague, Czech Republic
September 16–20, 2019
www.iccc2019.org

Ladies and Gentlemen,
Dear Cement Researchers, Producers and Users,

This is our honour and great pleasure to invite you to the **15th International Congress on the Chemistry of Cement (ICCC 2019)** which will be held in **September 16-20, 2019 in Prague, Czech Republic.**

The International Congress on the Chemistry of Cement (ICCC) is the renowned global platform which summarizes the state of art of cement chemistry as well as major trends in cement application. Since the first International Congress on the Chemistry of Cement started in London in 1918, it has provided a strong and fruitful link between the academic world and the cement industry. It has always stimulated scientific exchanges and discussions between students and those who have already gained working experience in all of the many fields of chemistry relevant to cement production and its use in concrete and mortar.

The ICCC 2019 will present cement and environmental development worldwide and renowned experts from all over the world are invited to present their work at the Congress. The scientific programme will cover the topics of the newest and the most important research and development describing cement and clinker chemistry (incl. kiln process technology), the nano and macro properties of the clinker and cement, hydration processes, the impact of additives and admixtures, leaching processes, the behaviour of trace elements, microscopy outputs, alternative binders, durability of concrete, standards and codes, as well as modern laboratory instrument equipment. The Congress will consist of many plenary lectures and parallel sessions on a variety of topics, offering to the scientists, researchers, producers and users from all over the world the opportunity to meet, to present and to exchange their research results and knowledge.

The Congress is organized by Research Institute of Binding Materials Prague and the Czech Cement Association under the auspices of the President of the Czech Republic, the Prime Minister of the Czech Republic and the Ministry of Industry and Trade. Following the previous successful congresses, the last in Beijing, China, this is a big challenge for both organizers to keep and to improve the very high standard of congresses and satisfy all expectations of attendees. The Organizing Committee is pleased with the possibility to host this unique event in the Czech Republic – a small, pleasant country in the heart of Europe with rich history, beautiful countryside, modern infrastructure and nice people.

Everyone from around the world is invited to come and actively participate in this event, to get new information and contacts and to enjoy the favourable social activities.

Moreover, participation in ICCC 2019 is for you a unique occasion to visit Prague, one of the most charismatic cities on Earth, renowned for its rich history, stunning architecture, friendly people, and a fun-loving culture.

We sincerely look forward to meeting you in Prague in September 2019.

Lukáš Peřka
Chairman of the Organizing Committee

Jan Gemrich
*Chairman of the Scientific Committee
Secretary of the Steering Committee*

THEMES AND MAIN TOPICS OF THE CONGRESS

1. Process Technology and Clinker Chemistry

- natural and alternative raw materials and meal composition
- alternative fuels
- preheater and kiln reactions and bypass operations
- clinker formation chemistry and cooling processes
- grinding and grinding aids
- capture and reuse of greenhouse gases, control of other emissions



2. Hydration, Structure and Thermodynamics of Portland Cements

- hydration kinetics and hydration reactions modeling
- C-S-H and other hydration phases
- thermodynamics processes
- new techniques for micro and nano structure characterization



3. Supplementary Cementitious Materials (SCMs)

- processing and reactivity and influences on hydration
- new SCMs and its combination
- control of workability
- wastes and solid industrial residues as SCMs

4. Other Binders and their Application

- alkali-activated materials
- calcium sulfoaluminate cements
- belite-based cements and other low carbon binders
- tailored made binders as rapid hardening, polymer modified etc.

5. Fresh and Hardened Concrete

- chemical admixtures
- rheology and workability of fresh concrete
- shrinkage, creep and thermal crack
- recycled concrete

6. Concrete Durability

- alkali-aggregate reaction
- sulfate attack
- resistance to freeze and freeze/thaw attack
- carbonation and chloride penetration resistance
- resistance to marine exposure
- leaching of hydrated products
- methods to assess durability, service life modeling and evaluation
- quality of concrete on site



7. Testing Methods – Standardization and New Approach

TECHNICAL VISITS

Organizers plan visits of the appropriate technological research centres and suitable concrete plants and cement factories in the Czech Republic.

CALL FOR PAPERS

Interested authors will be invited to submit an abstract related to the themes listed in this brochure. Abstracts for proposed papers for presentation must meet conditions published on website www.iccc2019.org and can be sent only via this website.

LANGUAGE

The official language of the Congress is English. This includes all sessions and presentations.

EXHIBITION

The scientist exhibition will be held during the Congress and feature universities, companies and research centres presenting a variety of innovative new technologies and projects for the cement chemistry branch.

VENUE

The 15th International Congress on the Chemistry of Cement Prague 2019 will be held at the **Prague Congress Centre**. The Congress Centre is located 5 minutes by metro from Prague centre with famous view to the historical Old Town and Prague Castle which has one of the highest concentrations of UNESCO World Heritage Sites in Europe.

Prague Congress Centre

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