

A short report of ConCreep12

The 12th edition of the conference ConCreep (a series which started in 1958) took place from Wednesday 5th to Friday 7th June 2024 at Delft University of Technology, The Netherlands.



Delegates of the 12th edition of ConCreep. Image courtesy of Shan He.

CONCREEP 12 Preliminary Program			
	DAY 1 Wednesday June 5	DAY 2 Thursday June 6	DAY 3 Friday June 7
08:15	Registration and Coffee	Coffee	Coffee
09:00	Opening	DEBATE 2	DEBATE 4
09:15	Plenary Talk Zdenek Bazant		
10:00	Session 1a Session 1b Session 1c	Session 4a Session 4b	Session 8a Session 8b
11:00	Coffee	Coffee	Coffee
11:20	Session 2a Session 2b Session 2c	Session 5a Session 5b	Session 9a Session 9b
12:40	Lunch	Lunch	Lunch
13:30	DEBATE 1	DEBATE 3	DEBATE 5
14:20	Session 3a Session 3b Session 3c	Session 6a Session 6b	Session 10a Session 10b
15:40	Coffee	Coffee	Farewell drinks
16:00	LABTOUR and visit TRAM-project	Session 7a Session 7b	
17:20	Drinks around the lab		
18:30		Conference Dinner (city centre)	

Program of ConCreep12.

The organisers scheduled only one key-note lecture, given during the first day, by Prof. Zdeněk Pavel Bažant, Northwestern University, USA, presenting “*Why is hydration of cement as a porous solid always expansive? Consequences for drying and autogenous shrinkage, drying creep and swelling in water*”.



Prof. Bazant's plenary lecture at ConCreep 12. Image courtesy of G. Cusatis.

The rest of the plenary sessions were organised as debates between two renowned scientists, most of them RILEM active members... in a boxing-ring. The organisers ensure that no blood was spread! Following, some images of the debate sessions.



Debate 1: Similarities and differences between cement-based concretes and other binders. Boxers: Geert de Schutter vs. Ye Guang. Moderator: Erik Schlangen (on the far left). Image courtesy of Shan He.



Debate 2: Early age properties in 3D-printing and regular concrete production. Boxers: Yamei Zhang vs. Pietro Lura. Moderator: Branko Šavija. Image courtesy of Shan He.



Debate 3: Creep, Shrinkage and Durability, the path from research to codes in the US and EU. Boxers: Matthew D'Ambrosia vs. Agnieszka Bigaj. Moderator Mladena Lukovic (on the far left). Image courtesy of Shan He.



Debate 4: Micro-scale versus Macro-scale approach; what shall we do? Boxers: Ya Wei vs. Stéphanie Staquet. Moderator: Bernhard Pichler (in the centre). Image courtesy of Shan He.



Debate 5: Conceptual, Numerical or Machine Learning Models; what gives us better and safer structures? Boxers: Klaas van Breugel vs. Benoît Hilloulin. Moderator: Gianluca Cusatis (in the centre). Image courtesy of Shan He.