

## A short report of ConCreep12

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



Delegates of the 12<sup>th</sup> edition of ConCreep. Image courtesy of Shan He.

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	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	Plenary Talk Zdenek Bazant		DEI	DEDATEZ		DEBATE 4	
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.



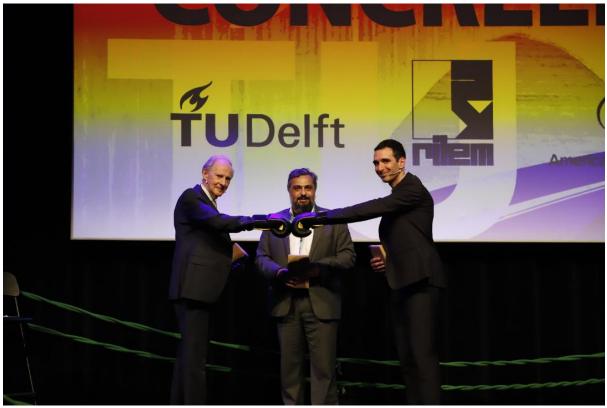
Debate 3: Creep, Shrinkage and Durability, the path from research to codes in the US and EU. Boxers: Matthew D'Ambrosia vs. Agnieszka Bigaj. Moderator Mladena Lukovic (on the far left). Image courtesy of Shan He.







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.