

Lantania participates in the *fib Symposium 2021* alongside the UPM School of Civil Engineering

- With an article on the design of UHPC whose main author is the director of the company's Technical Department, Technical Office, and Machinery Park

In Madrid, 14 June 2021 Lantania is taking part in the [fib Symposium 2021](#) along with the School of Civil Engineering of the Polytechnic University of Madrid (UPM). The director of the company's Technical Department, Technical Office and Machinery Park, Jesús Díaz, is the main author of an article on the design of Ultra-High-Performance Concrete (UHPC) that will be presented at the convention.

Entitled '*Mix proportioning of Ultra-High-Performance Concrete through use of packaging models*', the article has been written with the help of professors Jaime C. Gálvez and Marcos G. Alberti from the Department of Civil Engineering: Construction, UPM: Higher Technical School of Civil Engineering. Within the article, the fundamental models for the design of UHPC are analysed, pointing out the discrete multicomponent models as the ones that give the best results when it comes to obtaining a maximum packing of nano-range small particles. However, it is not only necessary to analyse adequate packing, but also the effects of the hydration processes of the nano-additions, to obtain the best properties in the concrete.

This year's *fib Symposium* is dedicated to 'Concrete Structures: new trends for eco-efficiency and performance'. The convention will be held online in Lisbon from 14 to 21 June. It will bring together professionals, researchers and students from all over the world who will address the three topics on which the meeting is structured: *fib* Model Code 2020, sustainable concrete and high-performance structures.

The International Federation for Structural Concrete (*fib*) is a non-profit organisation made up of 41 groups from 104 countries and of approximately 1,000 corporate and individual members. *Fib*'s mission is to develop, at an international level, the study of scientific and practical issues capable of promoting the technical, economic, aesthetic and environmental performance of concrete construction.