



SAVE THE DATE!

Join us for the

ERICA Final Conference

January 24-27, 2021

Heidelberg, Germany

www.ERICA-etn.eu



ERICA

A project funded by the European Union under the Horizon 2020 - Marie Skłodowska-Curie - Innovative Training Network programme

ERICA is an innovative, five-nation project straddling materials science and engineering, physics and chemistry in diverse areas of experimentation and computational modelling.

Inorganic hydrates such as calcium-silicate-hydrate, abbreviated C-S-H, are “wonder” materials exceedingly rich in terms of potential applications that can be produced in almost any shape or form, cheaply and in large quantities right across the world from local and sustainable resources. C-S-H is the “glue” of cement, itself the glue of concrete, material with enormous economic impact. But C-S-H and other hydrates are also used as a filler in paper and in polymer composites, as dental filling materials, for waste water treatment in fertilizers and as insulation and encasement materials including for nuclear waste.

C-S-H is the main phase controlling the performance of cement-based materials. These materials are so widely used that their production is the leading industrial source of greenhouse gases, contributing about 8% of global CO₂ emissions despite very low emissions per kg. Engineering C-S-H growth for faster strength development and for improved performance, such as water transport that affects C-S-H durability, is key to further lowering the CO₂ impact of construction.

The overarching aim of the ERICA project is to understand how to engineer hydrates at the nanoscale, to enable improved engineering applications and to train a cohort of materials scientists who will be able to carry these research advances forward in future employment.

The final conference will be a mix of presentations of results from the ERICA projects, invited talks and other projects.

Organisers

TU Wien, Austria

HeidelbergCement, Germany

Contact

For further information please write an mail to info@erica-etn.eu

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