

In cooperation with: BME Faculty of Civil Engineering **Department of Construction Materials and Technologies Department of Structural Engineering Department of Structural Mechanics** In cooperation with: BME Faculty of Architecture **Department of Mechanics, Materials and Structure**

Az ülés helye (PLACE):

Az ülés kezdete (DATE):

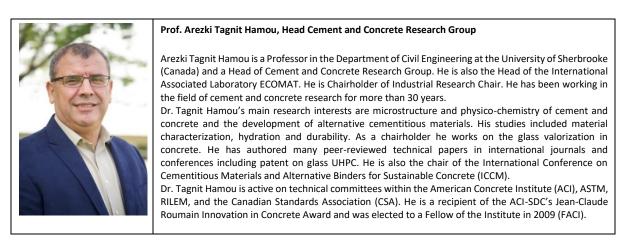
BME Building Kmf Room 79 1111 Budapest, Műegyetem rkp. 3. 10 (Monday) October 2022, from 16.15 to 17.30

INVITATION - MEGHÍVÓ

TOWARDS A MULTI-SCALE APPROACH TO DESIGN ECO-COMPATIBLE ALTERNATIVE **CEMENT SYSTEMS - From the innovation to the field: Case of Ground Glass Pozzolan**

Short summary of presentation: Developing concrete with the most efficient use of resources with optimized specific properties is the challenge of the 21st century. In addition to transportation, the vast majority of greenhouse gases (GHG) come from industrial production. The climate changes we are currently experiencing call upon us more than ever to reconsider our ways of designing concrete. To accelerate their application, we need a paradigm shift, scaling up and fast standardization of new materials and technologies. In this presentation we will focus on alternative cementitious materials to portland cement. The case of ground glass pozzolan will be taken as an example. The material is not only investigated in terms of hydration, microstructure and mechanical performances and durability but also in terms of macro-scale properties, scale-up, technology transfer and standardization. The resulting cementitious material is finally the first supplementary cementing material (SCM) since around 40 years in Canadian standard (CSA) and American standard (ASTM).

https://www.cvvm-saq.ca/publications Reading:



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