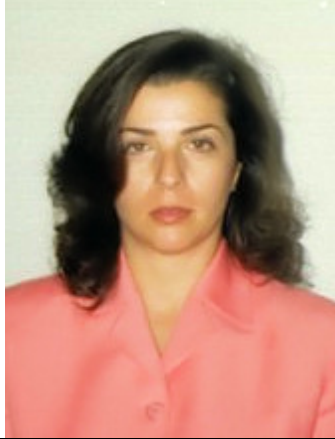


Event:
Date:
Place:

Technical Seminar
Thursday March 21, 2019
Wyndham Grand Athens Hotel



#	Maria Texiarxou Metallurgical Engineering	
Title:	Assistant Professor and Lecturer in the Laboratory of Metallurgy, School of Mining and Metallurgical Engineering, National Technical University of Athens	
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Presentation title:	Building an Ecosystem for the up-scaling of lightweight multi-functional concrete and ceramic materials and structures LightCoce	
<p>During the last decades a trend towards the use of lightweight materials in constructions and infrastructures, as well as in the aerospace and automotive industry is observed. Lightweight components are easy to transport, handle and install and demand less operational energy reducing substantially their environmental footprint and the relative costs. Among other materials, concrete and ceramics are on the focus of interest due to their wide range of application and their durability. Based on end applications lightweight attributes must be coupled with enhanced properties and multifunctionalities, such as high mechanical strength, self-sensing, self-cleaning properties, which can be achieved with the aid of nanomaterials. The main objective of the LightCoce project is to cover the gap in the upscaling and testing of multifunctional lightweight concrete and ceramic materials by providing open access to SMEs or Industry to a single entry point ecosystem consisting of already developed Pilot Lines (including three clusters of existing pilot lines; a. Concrete group, b. Conventional Ceramics group, and c. Advanced Ceramics group), process and materials modelling, Characterization, Standardisation, Regulatory, Safety & Environmental Assessment, Data Management and Innovation Management that will be accessible to the interested stakeholders at fair conditions and cost. The ecosystem will support the upscaling activities of European SMEs and industry, covering a large range of end applications from constructions materials (bricks, ceramic tiles), infrastructures (ready mix concrete, prefabricated components), to high tech applications in automotive & aerospace industry. Thus, LightCoce ecosystem targets will be achieved through the collaboration of a well-balanced multidisciplinary consortium consists of 26 Industrial and RTO partners well recognized and world leading experts in their fields: 5 Large Enterprise 8 RTDs, 12 SMEs, and 1 Association spread across 9 countries.</p>		
CV:		
<p>Prof. Maria Taxiarchou studied Mining and Metallurgical engineering at National Technical University of Athens, 1982-1987, and received her PhD degree in Metallurgy from School of Mining and Metallurgical Engineering in 1991. She has participated as a senior researcher in more than 25 national and EC funded projects. Her research experience includes process design and development, processing of ores and industrial minerals, synthesis of high added-value materials from ores and industrial minerals, assessment of the environmental impact of products and production processes. She has gained considerable experience on perlite expansion process technology and more specifically in the sectors of energy efficiency optimisation, integration of new technologies and analysis of kinetics and thermodynamics.</p>		