Università di Genova

DICCA DIPARTIMENTO DI INGEGNERIA CIVILE, CHIMICA E AMBIENTALE

DICCA SEMINARS

Dr. ALESSANDRA SANSON
Institute of Science and Technology for Ceramics (ISTEC)

"Ceramic Materials and the Energy Transition"

ABSTRACT

The climate changes consequent to the escalation of the greenhouse gas emissions are rising increasing concern and push towards the development of a new green energy system.
In this scenario, there is need of efficient and more sustainable materials to effectively drive the energy transition and build a more sustainable energy sector.
Although Ceramic is the most ancient material know to man, it has deeply evolved since then, opening the path to a highly engineered platform for several different applications. Not only bulk and monophasic, the term "ceramic" comprises nowadays several materials such as composites, multiphasic systems and films that are widely applied for the production, storage and energy efficiency.
The aim of this talk is to give an overview of the role played by ceramic materials in the quest towards an efficient, carbon neutral, renewable energy system. From the hydrogen economy to solar conversion and energy harvesting and storage, the possibilities and challenges offered by the ceramic materials are presented and discussed.

Friday, May 27th
2.30 pm

Streaming on the Teams channel: wlp9vyt

Villa Cambiaso - Salone Nobile
Via Montallegro 1 (GE)
School of Engineering, UNIGE

dicca.seminari@gmail.com

@diccaseminars