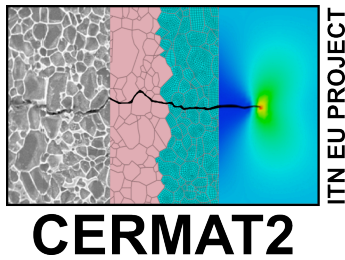




UNIVERSITÀ DEGLI STUDI
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Dipartimento di Ingegneria Civile,
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AVVISO DI CORSO

Si comunica che **mercoledì 18 giugno alle ore 17.45**
si terrà presso l'aula **R2** (via Mesiano 77) il seguente corso

Multi-physics modelling of cracking in quasi-brittle materials for energy applications

Prof. Marco Paggi

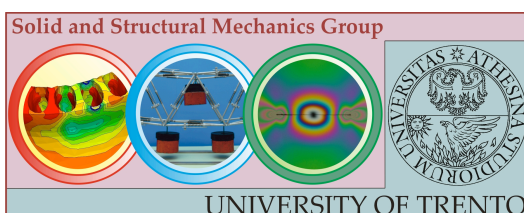
IMT Institute for Advanced Studies Lucca

Quasi-brittle materials used in multi-layered composites for energy applications, like ceramics for solid oxide fuel cells and silicon for solar cells, are subject to cyclic temperature and diffusion processes inducing severe damage and cracking, thus limiting their durability.

In order to understand the evolution of those phenomena and design a new generation of materials with a better performance and a longer life, a multi-physics approach has to be pursued. In the present talk, the multi-physics computational approach developed in the framework of the ERC Starting Grant CA2PVM "Multi-field and multi-scale Computational Approach to design and durability of Photovoltaic Modules" is presented and its implementation in the finite element method discussed.

Tutti gli interessati sono invitati a partecipare.

Il seminario è organizzato dal gruppo di Scienza delle Costruzioni
(D. Bigoni, L. Deseri, N. Pugno, M. Gei, F. Dal Corso, A. Piccolroaz, R. Springhetti)



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