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Preface

Cermodel 2017: Modelling and Simulation Meet Innovation in Ceramics Technology July 26–28, 2017, Trento, Italy



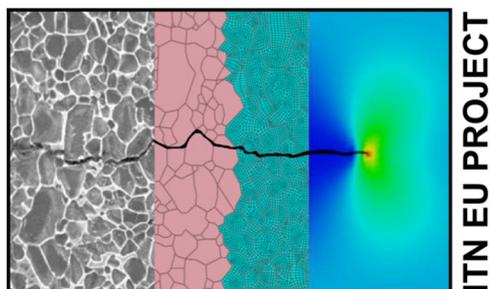
This special issue contains selected articles which are based on presentations from the third Cermodel Congress, Cermodel 2017, held in Trento, Italy, July 26–28 2017. Over the three days of the congress presentations were given on the modeling and simulation of ceramics materials. Cermodel was borne out of a need to show the potential and importance of modeling in the development and improvement of ceramics and where using mechanical, mathematical, constitutive, experimental, and numerical techniques can lead to innovation.

Whether it's making bricks or advanced technical ceramics, the industry is under pressure to innovate not just for better performance characteristics, but also to improve process efficiency, reduce energy consumption and generally become more sustainable. In these conditions, modeling and simulation become indispensable tools for creating the innovative processes and novel designs necessary for the industry to maintain its leadership and to produce the high performance ceramics of tomorrow.

The articles in this special issue are limited to original work which has been reviewed following the standard procedures of the Journal of the European Ceramic Society. The aim of this is to showcase the latest developments in this most interesting of industrial areas. The Organizing Committee is grateful for the financial support of the EU (PITN-GA-2013-606878-CERMAT2), to the University of Trento (Italy), to the CNR-ISTEC Istituto di Scienza e Tecnologia dei Materiali Ceramici (Faenza, Italy), to the Italian Ceramic Society, to Enginsoft, Vesuvius and the Provincia Autonoma di Trento that contributed greatly to the success of the Conference.

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