

11th Biennial Congress of the Iranian Ceramic Society The 2nd International Conference on Ceramics



Ceramic Process Technology in Technical Ceramics for a Greener Environment

Karin Scharrer

The current developments of applications in technical ceramics in the user sectors of energy and environmental engineering, electromobility, electronics, telecommunication as well as medical engineering and lifestyle rise increasing demands regarding the manufacturing technology of ceramic components. Dependent on the various applications trends towards miniaturization, complexity of components, advanced joining technologies can be observed. A great challenge for system suppliers of machinery and equipment are sustainability, precision, flexibility and speed of the processes. The control and adaption of raw materials and mixes in the whole process chain is essential to achieve an economic performance of the technology and high quality products.

In Technical Ceramics Germany made in the last decade good progress. A strong point is that technology suppliers and manufacturers can establish fruitful cooperation to enhance further product development. The session will present insights from raw material control to achieve stable processes to details on advancements in preparation, shaping, drying and firing technology.

ceramic
forum international



Iranian Ceramic Society
Iran University of Science and Technology
Dept. of Materials Engineering Narmak,
Tehran, iran
P.O. Box: 16845-111