



Symposium H : XII BRAZILIAN ELECTROCERAMICS SYMPOSIUM

Scope of the Symposium

Electroceramics is an important interdisciplinary research area involving mainly physicists, chemists and engineers. Electroceramics is a very attractive area in Materials Science. It is large the number of journals and meetings with publication of many papers with potential technological impact. New materials with outstanding properties and potential technological applications together with old materials presenting actual technological applications and enhanced properties offer a broad field of research opportunities. This symposium, organized by the Brazilian-MRS intends to be a forum for all researchers and students (undergraduate, M. Sc., PhD and Pos-Docs) on electroceramics. The state-of-the-art of R&D on electroceramic materials will be focused with reviews of the present knowledge and forecasts for future developments. Emphasis will be put on the opportunities for experiences exchange and discussions among researchers. Several features of R&D on electroceramics, including novel processing, experimental procedures and technological applications will be considered.

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Revista Cerâmica

Papers can be submitted to the Cerâmica journal (Revista Cerâmica).
 More info soon.

Abstracts will be solicited in (but not limited to) the following areas

- *Synthesis and Processing: powder synthesis; thin and thick film processing and characterization; self-supported structures; multilayer structures; Heterostructures; nanostructures; sintering and microstructure development; grain boundary engineering; ce*
- *Characterization: dc and ac standard electrical measurements; electrochemical impedance spectroscopy; electrical, magnetic, magnetoelectric and multiferroic ceramics; ionic-electronic mixed conductors; transport phenomena and diffusion; defects in elect*
- *Applications: Dielectrics; ferroelectric memories; piezoelectrics; electrostrictive ceramics, lead-free electroceramics; magnetic ceramics; ceramic superconductors; spintronics; sensors and actuators; transducers; varistors; PTC and NTC; solid oxide fu*

Tentative list of invited speakers (To be confirmed)

Hans P. Buchkremer (*Forschungszentrum Jlich*) **Sven Uhlenbruck** (*Forschungszentrum Jlich*) **Eliana N. dos S. Muccillo** (*Nuclear and Energy Research Institute*) **Vincenzo Esposito** (*DTU*) **Fernando M. B. Marques** (*University of Aveiro*) .

Symposium Organizers

Daniel Z. de Florio (*UFABC*) **Manuel H. Lente** (*UNIFESP*) **Marcelo O. Orlandi** (*UNESP*) .

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