



Symposium J : Glass and Glass-Ceramics: Breakthrough Materials from Synthesis to Applications

Scope of the Symposium

Glass and glass-ceramics have attracted large attention due to their interesting properties, which could be tune by changing composition as well as their isotropy, easiness and loss cost of preparation when compared to monocrystalline materials. Their excellent mechanical, electrical and optical properties make glass and glass-ceramics important materials for many technological applications. In this scenario, an extend research on the glasses has been carried in Brazil, following the trends of the international glass community researches on the synthesis, structural investigation, optical applications and characterization of different class of glass and glass-ceramics. This symposium on glasses and glass-ceramics, aims to gather the actual research community to share ideas, discuss results and debate the most recent research trends exploited on glass and glass-ceramic synthesis. The topics are mainly focused on, but not limited to, synthesis and characterization of glasses and glass-ceramics for a broad range of applications including optics, communication, data storage, luminescence, biology, electronics and optical microstructuring etc.

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

- *Synthesis of glass and glass-ceramics*
- *Structural properties of glass and glass-ceramics*
- *Optical properties of glass and glass-ceramics*
- *Optically active glass and glass-ceramics*
- *Rare-earth doped glass and glass-ceramics*
- *Advanced applications of smart glasses*
- *Photovoltaic glass technology*
- *Photochromic materials*
- *Electrical, mechanical and magnetic properties of glass and glass-ceramics*
- *Glass and glass-ceramics for biological applications*

Tentative list of invited speakers (To be confirmed)

Andrea Simone Stucchi de Camargo Alvarez Bernardez (*Universidade de So Paulo*) **Sidney Jos Lima Ribeiro** (*Instituto de Quimica - UNESP*) **Lauro June Queiroz Maia** (*Universidade Federal de Gois*) **Carlos Jacinto da Silva** (*Universidade Federal de Alagoas*) **Mauro Luciano Baesso** (*Universidade Estadual de Maring*) .

Symposium Organizers

Mohammad Reza Dousti (*Universidade Federal Rural de Pernambuco*) **Danilo Manzani** (*Universidade de So Paulo*) **Gal Yves Poirier** (*Universidade Federal de Alfnas*) **Jefferson Luis Ferrari** (*Universidade Federal de Uberlndia*) .

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XVIII Brazil MRS Meeting