

Symposium D: Advanced Powder Technology

Scope of the symposium

Advances on powder synthesis and processing have driven forward innovative fabrication of a wide variety of both traditional and novel industrial components. The intrinsic technological and economical advantages on the large scale use of powdered materials and the advances on powder technology have largely contributed to the development of the applied science for the ceramic and metal industry, including automotive, electromechanical, structural and technical ceramics, electronics, appliances, and pigments, to name a few. This symposium has traditionally promoted a multidisciplinary environment for undergoing work presentation and information exchange regarding recent advances on the synthesis, processing, characterization and uses of ceramic and metal powdered materials. The scientific program of the symposium includes invited lecturers in addition to both oral and poster presentations covering the most relevant areas related to particulate materials.

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

- Advances in powder synthesis
- Powder shaping
- Sintering
- Thermal and thermochemical surface treatments applied to sintered materials
- Microstructure and microstructural modeling of powdered and sintered materials
- Characterization and properties of powdered materials
- Alloy Design and Development
- Intermetallics, ceramics and composites
- Novel materials and emerging areas
- Functionally graded materials (FGMs)
- Catalytic materials
- Use of particulate residues

Symposium organizers

Antonio Eduardo Martinelli (UFRN, Natal, RN, Brazil)
Antonio Pedro Novaes de Oliveira (UFSC, Florianópolis, SC, Brazil)
Cristiano Binder (UFSC, Florianópolis, SC, Brazil)
Rubens Maribondo do Nascimento (UFRN, Natal, RN, Brazil)

Invited speakers (Confirmed)

Frank A. Müller (Friedrich-Schiller-University of Jena, Germany)
Paula A. Rojas Saperas (Universidade Católica de Valparaíso, Chile)
Jens Günster (BAM, Berlin, Germany)
Jairo Arturo Escobar Gutierrez (Universidad de Los Andes, Bogotá,
Colombia)

Scientific committee members (tentative list)

Antonio Eduardo Martinelli (UFRN, Brazil)
Francisco Castro (CEIT - San Sebastian, Spain)
Paula A. Rojas Saperas (Universidade Católica de Valparaíso, Chile)
Rubens Maribondo do Nascimento (UFRN, Brazil)
Cristiano Binder (UFSC, Brazil)
Aloisio Nelmo Klein (UFSC, Brazil)
Jairo Escobar (UNIANDES, Colômbia)
Antonio Pedro Novaes de Oliveira (UFSC, Brazil)
Lucio Salgado (Metallum-SP, Brazil)
Lirio Schaeffer (UFRGS, Brazil)
Frank Clemens (EMPA, Suisse)
Carlos P. Bergmann (UFRGS, Brazil)