Symposium N

Title:

Materials Education Symposium

Scope:

Materials Science is an example of the disciplines that connects the pure and applied sciences across many fields. This creates something we can call a wave of challenges, where the only interdisciplinary thinking can help achieve a balance between understanding and knowledge transfer necessary for engineers and other professionals today. This Symposium invites educators to work in the areas of materials, physics, chemistry, mathematics, biological sciences and engineering, describing his recent accomplishments, creative teaching styles, curriculum development and innovative. Contributions by educators at various levels are welcome, including schools, universities, technology centers and dissemination to the community at large.

This is a symposium in the area of innovative materials for the Brazilian Society for Materials Research (SBPMat) because it is not just a conference debated research but research and teaching materials. We find ourselves at a point where not only the research becomes as valid for the academic formation of new students and future professionals. We need education in the classroom is truly aggrandizing as the experience in professional practice, both in teaching, and in industry. We seek through this meeting narrowing the boundaries between teaching, research, industry and teaching.

Session Topics:

- Innovation and Challenger;
- Interdisciplinarity;
- Methods and Instructional Resources;
- Tutorials about New Materials;
- New processing techniques and characterization;
- Materials, Industry and Government;

- Engaging and inspiring students;
- Use of information technology in engineering education;
- Design, materials selection and industry;
- Materials and the Environment;
- Curriculum Development

Tentative List Invited Speakers:

Adelaide de Almeida, Universidade de São Paulo, Brasil

Andrea Medeiros Salgado, Universidade Federal do Rio de Janeiro / EQ, Brasil

Benedito Guimarães Aguiar Neto, Universidade Mackenzie, Brasil

Elizabete F. Lucas, Universidade Federal do Rio de Janeiro, Instituto de Macromoléculas, Brasil

Fernando César Almada Santos, Universidade Federal de São Carlos, Brasil

Grant Norton, Washington State University, USA

Hanns-Ulrich Habermeier, MPI-FKF Stuttgart, Germany

James Brenner, Florida Institute of Technology, USA

James Schackelford, UCDAVIS, USA

João Sérgio Cordeiro, Universidade Federal de São Carlos, Brasil

John E. E. Baglin, IBM Almaden Research Ctr, USA

José Ramon Jurado, CSIC, Spain

Juan B. Carda, Universitat Jaume I, Spain

Luanna Lopes Lobato, Universidade Federal de Goiás / Universidade Federal de Pernambuco, Brasil

Luis Fuentes-Cobas, CIMAV, Mexico

Marcel Hubert Van de Voorde, Delft University, Netherlands

Marcelo Knobel, Universidade Estadual de Campinas, Brasil

Nival Nunes de Almeida, Universidade do Estado do Rio de Janeiro, Brasil

Prof. Steve Krause, Arizona State University, USA

Robert Lee Zimmerman, AAMU, USA

Robert P.H. Chang, Northwestern University, USA

Sérgio Mascarenhas, Universidade de São Paulo, São Carlos, Brasil

Vanderlei Salvador Bagnato, Universidade de São Paulo São Carlos, Brasil

Victor Castano, UNAM, Mexico

Symposium Organizers:

Sergio Cava, Universidade Federal de Pelotas, Centro de Desenvolvimento Tecnológico, Brasil

Mário Lúcio Moreira, Universidade Federal de Pelotas, Instituto de Física e Matemática, Brasil

Vanderlei Bagnato, Universidade de São Paulo Instituto de Física de São Carlos, Departamento de Física e Ciência dos Materiais, Brasil

Prof. José Jurado, Consejo Superior de Investigaciones Científicas, Espanha

Reginaldo Muccilo, Instituto de Pesquisas Energéticas e Nucleares (IPEN), Brasil

Scientific Committee:

Aguinaldo Robinson de Souza, DQ, Unesp, Bauru

Ana Valeria Lourenço, DCET, Universidade Federal de São Paulo

Carlos P. Bergmann, Universidade Federal do Rio Grande do Sul, Brasil

César A. O. Avellaneda, Universidade Federal de Pelotas, Brasil

Darci Gatto, Universidade Federal de Pelotas, Brasil

Diogo Volanti, Universidade Estadual Paulista "Júlio de Mesquita Filho", Brasil

Margarete R. F. Gonçalves, Universidade Federal de Pelotas, Brasil

Paulo Noronha Lisboa Filho, Unesp Bauru

Sergio Mazurek Tebcherani, Universidade Estadual de Ponta Grossa

Tatiana Mazzo, Universidade Estadual Paulista "Júlio de Mesquita Filho", Brasil

Valeria Longo, Universidade Estadual Paulista "Júlio de Mesquita Filho", Brasil