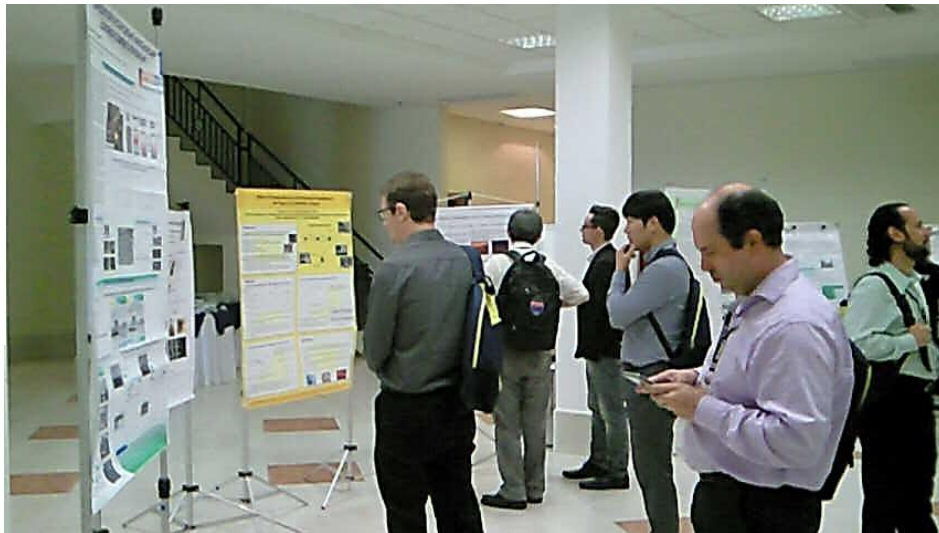


「MM&FGM2014」第 13 回国際傾斜機能材料シンポジウム in Brazil 会場風景



▶ポスターセッション







▲FGM シンポジウムメイン会場

▼TAUA ホテル玄関



▲オルガナイザーとスポンサー：NJS-SL はスポンサーの一員として参加



▼ NJS-SL 展示テーブル



▲ホテルのレセプション周辺

▲Atibaia の町の中





**Objective**

The **MM&FGM 2014** intends to provide opportunities for exchanging ideas and discussing state-of-the-art theories, techniques and applications in the fields of multiscale, multifunctional and functionally graded materials (FGM), through invited lectures, oral and poster presentations. Submission by graduate students describing their work is encouraged.

**Chairman:**  
**Prof. Emilio Carlos Nelli Silva**  
 Polytechnic School of University of São Paulo, Brazil

**Co-chairs:**  
**Prof. Fernando Alves Rochinha**  
 COPPE - Federal University of Rio de Janeiro, Brazil  
**Prof. Glaucio H. Paulino**  
 University of Illinois at Urbana-Champaign, USA

**Call for Papers**

**Deadline for submission of abstracts:**  
**from November 1st, 2013 to February 1st, 2014**

**Venue**

**TAUÁ Resort Atibaia**  
[www.tauaresorts.com.br/atibaia/](http://www.tauaresorts.com.br/atibaia/)

**Scope**

**Functionally Graded Materials (FGMs)** are non-uniform materials which are designed with embodied continuous spatial variations in composition and microstructure for the specific purpose of adjusting their thermal, structural, mechanical, biological or functional response to specific application conditions. These materials are presently in the forefront of material research, receiving worldwide attention. They have a broad range of applications including for example, biomedical, biomechanical, automotive, aerospace, mechanical, civil, nuclear, and naval engineering. New applications are continuously being discovered and developed.

**Topics**

- Processing
- Manufacturing
- Modeling
- Design and Characterization
- Applications
- Biomedical Materials
- Thin Films and Coatings
- Nano-FGMs
- Multifunctional Materials
- Multiscale and Multiphysics modeling
- Computational Techniques
- Topology Optimization and Homogenization
- Energy Conversion Materials
- Fusion System Applications

**Contact**

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**For more information visit:**  
[www.igm2014.poli.usp.br](http://www.igm2014.poli.usp.br)

**Program**

The Conference aims to maximize interaction and discussion among participants about the state-of-art techniques and recent developments in the fields of FGMs. Specifically, the Conference has plenary lectures, short courses, and oral and poster sessions. Moreover, receptions, daily lunches, banquet dinner, and committee meetings are included in the event program.

**Bring a guest to the MM&FGM2014**

The **MM&FGM2014** will be held in the picturesque Tauá resort, which is ideal for the event and also for your guests. Please be assured that you and your guests will have a very pleasant and enjoyable time during your stay in the event.

**Mini-symposia**

Proposals are invited for organizing Mini-symposia at the **MM&FGM2014**. A standard Mini-symposium will have 10 presentations of 20 minutes each. Organizers can invite a keynote lecturer for their Mini-symposia. Invited keynote lectures will be 40-minutes long, in which case total of 9 presentations will be available (1 keynote + 8 presentations).

**Plenary Lectures**

- **Prof. Somnath Ghosh**  
 Johns Hopkins University, USA
- **Prof. Akbar Kaveasani**  
 Tokyo University
- **Prof. Glaucio H. Paulino**  
 University of Illinois, USA
- **Prof. Winston Ole Soboyejo**  
 Princeton University, USA
- **Prof. Matthias Willert-Porada**  
 Universität Bayreuth, Germany
- **Prof. Zhangjian Zhou**  
 University of Science and Technology Beijing, China

**Short Courses**

- Short Course on Biomimetic Design and Biomaterials given by Prof. Wole Soboyejo on Sunday (October 15th)
- Short course on Integrated Multi-Scale Characterization and Modeling of Ductile Failure in Heterogeneous Metallic and Composite Materials given by Prof. Somnath Ghosh on Sunday (October 19th)

**International Scientific Committee**

- Acelio S. Ramos Junior (UFPA, Brazil)
- Alex Sutherland (Ohio State, USA)
- Carlos Alberto de Aguiar (UFPA, Brazil)
- Daniela Paskin (McGill University, Canada)
- Diana Maria Lopes Ochoa (Univ. Nacional de Colombia, Colombia)
- Eric de Souza (Villava Tech, USA)
- Eusebio dos Reis Santos Campelo (Polytechnic School of University of São Paulo, Brazil)
- Giles Lachaux (CAUST, Saudi Arabia)
- Pedro C. Rodrigues (Instituto Superior Técnico, Portugal)
- Juan Manuel Mesa Mesa (Univ. Nacional de Colombia, Colombia)
- Karl Heide (University of Colorado - Boulder, USA)
- Marco Airoli (VAULT, Saudi Arabia)
- Marcelo Alves Pinheiro (School of University of São Paulo, Brazil)
- Mark L. Dunn (University of Colorado - Boulder, USA)
- Marileza Prada (WPI, Virginia, USA)
- Paulo de Paula Pereira (Polytechnic School of University of São Paulo, Brazil)
- Qing Li (The University of Sydney, Australia)
- Robert Linton (Louisiana State, USA)
- Serkan Cengiz (Middle East Technical Univ., Turkey)

**Special Issue**

Mechanics Research Communication Journal

**Abstract Submission**

Participants are invited to submit abstracts as contributions for this event. Abstracts will be evaluated and selected for oral or poster presentations. Prospective authors are invited to present their latest results in all of the areas of multiscale, multifunctional and functionally graded materials. Abstracts should be written in English and submitted online to: [www.igm2014.poli.usp.br](http://www.igm2014.poli.usp.br) from November 1st, 2013 to February 1st, 2014.

**FEM Poster Award Announcement**

A Poster Competition for graduate students and young researchers will be held at the **MM&FGM-2014**. This session will also offer an opportunity for all participants to exchange information and interact with young researchers in a relaxed atmosphere. Special prizes, called **FEM Poster Awards** will be for meritorious presentations.

**Important Dates**

- Abstract submission deadline: February 1st, 2014
- Notification of abstract acceptance: May 1st, 2014
- Poster and paper submission: June 1st, 2014
- Early registration: June 15th, 2014
- Event takes place: October 19-22, 2014