

# BEIJING 2012

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## THE 12<sup>TH</sup> INTERNATIONAL SYMPOSIUM ON MULTISCALE,

#### **MULTIFUNCTIONAL & FUNCTIONALLY GRADED MATERIALS**

October 22-26, 2012

Beijing International Conference Center, Beijing, China

Endorsed by:



International Association on Layered and Graded Materials (LGM-AS)

Hosted by: University of Science and Technology Beijing, China Tinghua University, Wuhan University of Technology

www.FGM2012.org

#### **SCOPE and HISTORY**

The objective of the 12<sup>th</sup> international symposium on multiscale, multifunctional & functionally graded materials (FGM 2012) 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.

The series continues with previous international symposia on FGM held in Sendai, Japan (1990), San Francisco, USA (1992), Lausanne, Switzerland (1994), Tsukuba, Japan (1996), Dresden, Germany (1998), Estes Park, USA (2000), Beijing, China (2002), Leuven, Belgium (2004), Hawaii, USA (2006), Sendai, Japan (2008) and Guimaraes, Portugal (2010).

#### **TOPICS**

#### Manufacturing:

\* Nano-FGMs; \* Functional Components; \* Deposition and Casting; \* Processing of Layers; \* Reactive Bulk and Melt Processing of FGMs; \*Infiltration Processing; \* Thin film; \* Novel fabrication technology;

#### Modeling, Design and Characterization

\*Optimal Design of Material Composition Distribution; \*Material-Property Estimation Techniques; \*Functionally Graded Composite Structures; \* Mathematical Modeling and Topology Optimization; \* Multiscale Multiphysics Modeling; \* Nano, Micro and Meso-Scale Modeling; \* Stress in FGM Coatings and Joints; \* Properties Measurement Methods and Characterizations; \* Biomedical Applications; \* Bio-Compatible Materials;

#### Energy systems and extreme environment applications

- \* Energy Conversion Materials; \* Piezoelectric Systems; \* fusion system applications; \* Thermal Barrier Coatings;
- \* Tribological Coatings; \* Graded Abrasive Tools;

### **LANGUAGE**

The official language of the conference will be English.

#### **PUBLICATION**

Submitted papers will be peer reviewed to a high standard. Accepted papers will be published in a proceedings or selected Journal.

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### **ABSTRACT SUBMISSION**

Abstracts should be submitted via the Online Submission Form by 15 April 2012. Submission by graduate students describing their work is encouraged.

#### **KEY DATES**

Deadline for abstract	April 15, 2012
Notification of acceptance	May 15, 2012
Deadline for 4-page manuscript	September 15, 2012
Deadline for pre-registration	August 30, 2012

#### **VENUE**

The conference will be held in the Beijing International Conference Center, conveniently located near the Olympic Park and well accessible by car and public transport. It provides all necessary state-of-the-art facilities for a successful conference. From the council chamber you can found that the bird's nest is right in front of you.







### **INTERNATIONAL ADVISORY COMMITTEES for FGM'S**

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## **LOCAL ORGANIZATION COMMITTEES**

Chang-Chun Ge; Xuanhui Qu; Jingfeng Li; Wei Pan; Lianmeng Zhang; Qingjie Zhang

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More informations please browse webpage: www.FGM2012.org