

15TH INTERNATIONAL SYMPOSIUM ON FUNCTIONALLY GRADED MATERIALS

- Structural Sector Approaches for New Functionalities and Durability -



5-8 August 2018

**Kitakyushu International Conference Center
Kitakyushu, JAPAN**

Organized by
Functionally Graded Materials FORUM of JAPAN
www.fgms.net/isfgms2018

Important Dates to Remember

- ✓ Abstract Submission Open:
20 November 2017
- ✓ Abstract Submission Deadline:
20 January 2018

ISFGMs 2018

15th International Symposium on Functionally Graded Materials, 5-8 August 2018

FURTHER INFORMATION

To ensure you receive a copy of the Preliminary Program and to register for e-mail updates about ISFGMs 2018, please complete and return the reply form below.

Please check this box to be added the e-mail list and receive regular updates about the conference and reminders of important deadlines.
E-mail: _____

I intend to submit an abstract for oral presentation.

I intend to submit an abstract for poster presentation.

I intend to participate as a delegate only.

I am interested in exhibiting at the symposium or in commercial sponsorship opportunities - please send me details.

PLEASE PRINT OR TYPE

Title (Prof., Dr, Mr, Ms) _____

Name _____

Job Title _____

Company/Institution _____

Address _____

Sate/Country _____

Postal/Zip Code _____

POST, FAX or E-mail to:

Functionally Graded Materials FORUM of JAPAN
2-1-40 Takamori, Izumi-ku, Sendai,
Miyagi 981-3203, JAPAN
Phone +81-22-343-9161
FAX +81-22-343-9162
E-mail: fgms_2018@f-jst.or.jp

INTERNATIONAL ADVISORY COMMITTEE FOR FGMs (IACFGMs)

[U.S.A.]

Prof. Glaucio H. Paulino
University of Illinois

Prof. Marek-Jerzy Pindera
University of Virginia

Prof. Jeong-Ho. Kim
University of Connecticut

Assoc. Prof. Huming Yin
Columbia University

[GERMANY]

[BELGIUM]

Prof. Omer Van Der Biest
Katholieke Universiteit Leuven

[FINLAND]

Prof. Michael Gask
Aalto University Foundation

[SLOVENIA]

Dr. Sasa Novak
Jožef Stefan Institute

[RUSSIA]

Prof. Evgeny Levashov
National University of Science and Technology "Moscow Institute of Steel and Alloys"

Dr. Vladimir Sanin
Institute of Structural Macrokinetics and Materials Science

[CHINA]

Prof. Lianmeng Zhang
Wuhan University of Technology

Prof. Qingjie Zhang
Wuhan University of Technology

Prof. Wei Pan
Tsinghua University

Prof. Chang-Chun Ge
University of Science and Technology Beijing

Prof. Jing-Feng Li
Tsinghua University

Prof. Zhangjian Zhou
University of Science and Technology Beijing

[TURKY]

Prof. Serkan Dag
Middle East Technical University

[BRAZIL]

Prof. Fernando A. Rochinha
Federal University of Rio De Janeiro

Dr. Emilio C. N. Silva
University of Sao Paulo

Dr. Luis Augusto Rocha
Universidade Estadual Paulista "Júlio de Mesquita Filho"

[SOUTH KOREA]

Assoc. Prof. Hansang Kwon
Pukyong National University

[JAPAN]

Prof. Akira Kawasaki
Tohoku University

Prof. Ichiro Shiota
Japan Aerospace Technology Foundation

Dr. Akinaga Kumakawa
Japan Aerospace Technology Foundation

Dr. Yoshikazu Shinohara
National Institute for Materials Science

Prof. Takashi Goto
Tohoku University

Prof. Yoshimi Watanabe
Nagoya Institute of Technology

Prof. Kazuhiro Hasezaki
Tokushima University

Prof. Soshu Kirihara
Osaka University

[EMERITUS MEMBERS]

Prof. Emer. Wolfgang G. J. Bunk
Germany

Prof. Emer. Fazil Erdogan
U.S.A.

Prof. Emer. Toshio Hirai
Japan

ISFGMs 2018

15th International Symposium on Functionally Graded Materials

- Structural Sector Approaches for New Functionalities and Durability -

5th-8th, August 2018

Kitakyushu International Conference Center,
Kitakyushu, Fukuoka, **JAPAN**

TOPICS

Functionally Graded Materials (FGMs) are multi-functional materials which contain spatial variations in composition and microstructure for the specific purpose of controlling variations in thermal, structural or functional properties. These materials are presently in the forefront of material research receiving worldwide attention. Such materials have a broad range of applications including for example, biomechanical, automotive, aerospace, mechanical, civil, nuclear, and naval engineering. New applications are continuously being discovered and developed. This symposium 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 through invited lectures, oral and poster presentations. Topics will include:

- Processing
- Manufacturing
- Design and Characterization
- Modeling and Simulations
- Multiscale Multiphysics Modeling
- Nano-FGMs
- Biomedical and Eco-materials
- Biomimetic Materials
- Multifunctional Materials
- Energy Conversion Materials and Device
- Topology Optimization and Homogenization
- Thin Films and Coatings
- Surfaces and Interfaces
- Computational Techniques
- Testing and Characterization
- Industrial Applications and Commercialization

30th ANNIVERSARY SYMPOSIUM

The first International Symposium on FGMs was held in Sendai (1990) where the concept of FGMs was born. Since then, a series of the symposia has been held every two years in USA, Europe, and Asia. FGMs Forum of Japan formed in 1988 has been strongly supporting these symposia in conjunction with the International Advisory Committee (IACFGMs). The Forum will celebrate the 30th anniversary in 2018 and it was fixed at the IACFGMs meeting in 2016 to hold the 15th symposium in Kitakyushu to commemorate the special year. We invite all of you who are interested in this field and hope to discuss the future of research and applications of FGMs.

YOUNG RESEARCHERS

With the help of sponsorship a special effort will be made to attract the participation of young researchers in the field through a reduction in participation fees. Poster presentation competition for young researchers is planned. For more information of the competition, see the website which is scheduled to open on 20 November 2017;

www.fgms.net/isfgms2018

SUBMISSION OF ABSTRACT

Those who have interest in the symposium and wish to make a presentation are invited to return the attached reply form. They will receive the second call. The deadline of abstract (1 page) submission is **20 January 2018**. Your abstract should fit on one A4 page and be sent preferably as a PDF-file or as a Word document. Abstract should be submitted through the website which is scheduled to open on 20 November 2017;

www.fgms.net/isfgms2018

Authors will be notified of its acceptance by **20 March 2018**.

Those who wish to publish their proceedings are encouraged to submit them. The deadline for submission of the proceeding (2-4 pages) with a camera ready format is **20 May 2018**. Peer review of submitted proceedings will be organized before the symposium. The proceedings will be included in a USB memory stick among the conference materials only after the receipt of one full registration fee per proceeding in due time.

PRELIMINARY REGISTRATION

Those who wish to attend the symposium are requested to fill out the attached preliminary registration form and return it to the secretariat to reach by **20 January 2018**.

LOCATION

The conference will take place at [Kitakyushu International Conference Center, Kitakyushu, Fukuoka](#). The venue is about 5 minutes' walk from JR Kohara Station, or about 30 minutes' access by the super express "Shinkansenn" from Fukuoka International Airport.



LANGUAGE

The official language will be only English. Figures, Tables, and their captions for oral presentations, as well as posters should be written in English.

SECRETARIANT

Functionally Graded Materials FORUM of JAPAN
2-1-40 Takamori, Izumi-ku, Sendai,
Miyagi 981-3203, JAPAN
Phone +81-22-343-9161
FAX +81-22-343-9162
E-mail: fgms_2018@f-jast.or.jp