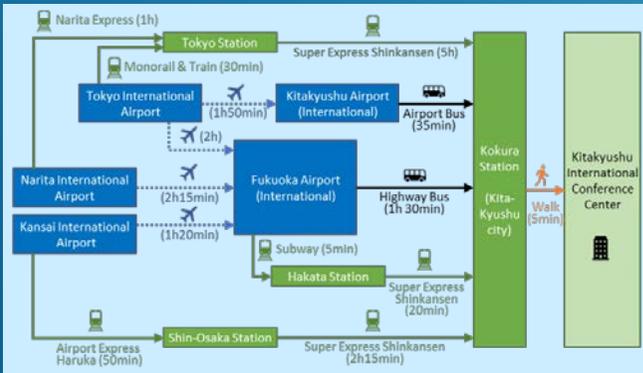
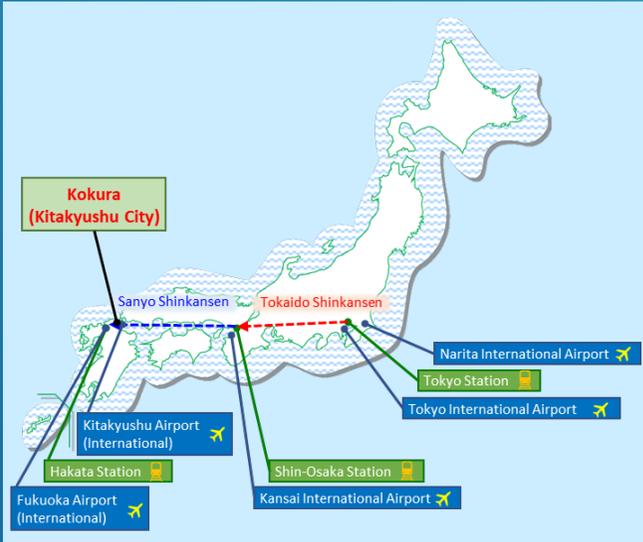


TRAVEL INFORMATION (Local Transportation to City of Kitakyushu)

The conference will take place at **Kitakyushu International Conference Center, Kitakyushu, Fukuoka**. The venue is about 5 minutes' walk from JR Kokura Station, or about 30 minutes' access from Fukuoka Airport (International) via JR Hakata Station by the super express "Shinkansen" .



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

TOURS

Ladies tour (optional) : Half-day excursion for the accompanying persons is planned on **the afternoon of 6 August 2018**. This tour offers unique visits of the World Heritage Site chosen for Japan's Meiji industrial revolution such as the imperial steel works of Yawata. Additional cost per person is JPY 5,000 and online registration is required by 20 July 2018.

Technical Tour : Half-day exclusive tour is planned on **the afternoon of 8 August 2018** that is the last day of ISFGMs 2018. This tour offers chances to visit a robot factory of Yasukawa Electric Corporation, a unique museum of TOTO Ltd., and so on.

For more information of those tours, see the website; www.fgms.net/isfgms2018.



INTERNATIONAL ADVISORY BOARD

[U.S.A.]

Prof. Glaucio H. Paulino
Prof. Marek-Jerzy Pindera
Prof. Jeong-Ho. Kim
Assoc. Prof. Huming Yin

[BELGIUM]

Prof. Omer Van Der Biest

[FINLAND]

Prof. Michael Gasik

[SLOVENIA]

Dr. Sasa Novak

[RUSSIA]

Prof. Evgeny Levashov
Dr. Vladimir Sanin

[CHINA]

Prof. Lianmeng Zhang
Prof. Qingjie Zhang
Prof. Wei Pan
Prof. Chang-Chun Ge
Prof. Jing-Feng Li
Prof. Zhangjian Zhou

[TURKY]

Prof. Serkan Dag

[BRAZIL]

Prof. Fernando A. Rochinha
Dr. Emilio C. N. Silva
Dr. Luis Augusto Rocha

[SOUTH KOREA]

Assoc. Prof. Hansang Kwon

[JAPAN]

Prof. Akira Kawasaki
Prof. Ichiro Shiota
Dr. Akinaga Kumakawa
Dr. Yoshikazu Shinohara
Prof. Takashi Goto
Prof. Yoshimi Watanabe
Prof. Kazuhiro Hasezaki
Prof. Soshu Kirihara
Prof. Ryuzo Watanabe
Dr. Masayuki Niino

Second Announcement

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

- ✓ Proceedings Paper Submission Deadline:
20 May 2018 (Submission is arbitrary, not duty.)
- ✓ Advanced Registration Deadline:
30 June 2018
- ✓ Standard Registration Deadline:
30 July 2018

ISFGMs 2018

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 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 and hope to discuss the future of research and applications of FGMs.

Chairperson of Organizing Committee

Akira Kawasaki

Tohoku University, JAPAN

Chairperson of Local Executive Committee

Kouichi Nakano

Kyushu Institute of Technology, JAPAN

SCOPE

The fundamental concept of Functionally Graded Materials (FGMs) is controlling the properties of structural sectors inside a material to realize new functionalities and durability. We believe that the idea of FGMs is one answer to our future. We are pleased to convene the 15th ISFGMs in Kitakyushu, Japan in 2018 for you with interest in new functionalities and durability by structural sector approaches.

SESSIONS

- 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

PLENARY LECTURES

As one of highlight events, a couple of plenary lectures will be planned.

- ✓ "Lessons learned with FGM development" by Prof. Michael M. Gasik (Aalto University Foundation, Finland).
 - ✓ "Additive manufacture and properties of layered, graded and 3D anisotropic materials for applications in communications and energy storage" by Prof. Patrick Grant FIMMM FEng (University of Oxford, UK).
- Other lectures are also promising ones.

MEMORIAL CEREMONY

Memorial ceremony for Prof. Dr. M. Willert-Porada and Prof. Dr. Toshio Hirai is going to be held on **the evening of 7 August 2018** to pray for the repose of their soul. The excellent dinner will be served at a restaurant in a historical European style building "Matshumono-tei" which is designated as an important cultural property.

PROGRAM AT A GLANCE (Tentative)

	Aug. 5 (Sun)	Aug. 6 (Mon)	Aug. 7 (Tue)	Aug. 8 (Wed)
Morning 9:00~12:00		Opening Ceremony	Oral Session	Oral Session
		Coffee break	Coffee break	Coffee break
		Oral Session	Oral Session	Closing Ceremony
Lunch 12:00~13:30		Lunch, Exhibition	Lunch, Exhibition	Lunch, Exhibition
Afternoon 13:30~17:30	Registration Desk Open 13:00~TBD, Welcome drink 13:00~17:00	Oral Session Coffee break Poster Session	Ladies Tour (Applicants only) 13:00~17:30 Oral Session	Technical Tour (Applicants only) 13:00~17:30
Evening 17:30~	IACFGMs meeting 17:00~20:00	Banquet 17:30~20:30	Memorial Ceremony of Prof. Dr. M. Willert-Porada and Prof. Dr. Toshio Hirai 17:30~20:00	

«NOTICE» Registration desk will be set up at Rihga Royal Hotel Kokura only on the first day (5 August). After the second day (6~8 August) the registration desk will be set up at Kitakyushu International Conference Center.

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.

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; www.fgms.net/isfgms2018.

SUBMISSION OF PROCEEDINGS PAPERS

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.

REGISTRATION FEE

Online registration system is available on the website; www.fgms.net/isfgms2018.

Registration Category	Advance Registration (~30 June 2018)	Standard Registration (1 July~ 31 July 2018)	Onsite Registration (5 August~ 8 August 2018)	Conference materials Access to all scientific sessions	Conference banquet ^{#1}	Memorial Ceremony ^{#2}	Coffee breaks and Lunches ^{#3}	Technical tour ^{#4}	Ladies tour ^{#5}
Regular Participant	JPY 60,000	JPY 70,000		■	■	■	■	■	□
Student Participant	JPY 30,000	JPY 40,000		■	■	■	■	■	□
Extra Tickets (for accompanying person)	Deadline of online registration for tours is 20 July 2018			×	×	JPY 5,000	JPY 5,000	JPY 5,000	JPY 5,000
※1 Conference banquet on 6 August 2018 ※2 Memorial ceremony on 7 August 2018 (with dinner) ※3 Coffee breaks and Lunches for 3 days from 6 to 8 August 2018 ※4 Technical tour on 8 August 2018 ※5 Ladies tour on 6 August 2018.				■ included □ not included (need an extra ticket) × not applied					

HOTELS

JTB Corporation has been appointed as an official travel agent for ISFGMs 2018 and will handle hotel accommodations. JTB has reserved a sufficient number of rooms at the following hotels for the participants during the symposium period at special discount rates:

- Rihga Royal Hotel Kokura
- Station Hotel Kokura
- JR Kyushu Hotel Kokura

Online hotel reservation system is available on the website; www.fgms.net/isfgms2018.

