



**International Symposium on Giant Straining
Process for Advanced Materials (GSAM2010)**
**---- Developing multifunctional materials
using severe plastic deformation ----**

November 19-22, 2010

**Nishijin Plaza, Kyushu University, GSAM2010
Fukuoka, Japan**

**Organized by
Zenji Horita (Kyushu University)**



Scope: This symposium focuses on the production of multifunctional materials by severe plastic deformation (SPD). Because the SPD process controls the microstructures in various forms in the nanoscale, materials exhibit not only superior mechanical properties but also electrical, magnetic and thermoelectrical properties including corrosion resistance, hydrogen storage capability, anti-radiation effect etc. The symposium welcomes any presentations dealing with multifunctional feasibility, mechanisms for multifunctional properties, analysis and evaluation for the microstructures and properties, and potential applications including review of the past related research. In the symposium, we will exchange our idea of how we develop multifunctional materials with various properties and how the SPD contributes to the development.

Supported by

★ **Kyushu University Interdisciplinary Programs in Education and Projects in Research Development (P&P).**
(http://zaiko6.zaiko.kyushu-u.ac.jp/p-p/index_e.html)



★ **Grant-in-Aid for Scientific Research from Ministry of Education, Culture, Sports, Science and Technology, Japan, (MEXT) in Innovative Areas "Bulk Nanostructured Metals".**



★ **The 176th Committee on Process Created Materials Function of the Japan Society for the Promotion of Science.**

★ **The Light Metals Educational Foundation of Japan.**

Keynote and Invited speakers (International)

Walter J. Botta	Universidade Federal de São Carlos, Brazil
Yuri Estrin	Monash University, Australia
Auriane Etienne	University of Rouen, France
Roland Grössinger	Vienna University of Technology, Austria
Hyoungh Seop Kim	POSTECH, Korea
Terence G. Langdon	University of Southampton, UK
Lei Lu	Institute of Metal Research, China
Boris Straumal	Institute of Solid State Physics, Russian
Xavier Sauvage	University of Rouen, France
Ludovic Thilly	Université de Poitiers, France
Ruslan Z. Valiev	Ufa State Aviation Technical University, Russia
Thomas Waitz	University of Vienna, Austria
Jingtao Wang	Nanjing University of Science & Technology, China
Gerhard Wilde	University of Münster, Germany
Kenong Xia	University of Melbourne, Australia
Michael J. Zehetbauer	University of Vienna, Austria
Yuntian T. Zhu	North Carolina State University, USA

Keynote speakers (Domestic)

Kei Ameyama	Ritsumeikan University
Kenji Higashida	Kyushu University
Zenji Horita	Kyushu University
Hiroshi Miura	University of Electro- Communications
Hideharu Nakashima	Kyushu University
Yoshikazu Todaka	Toyohashi University of Technology
Koichi Tsuchiya	NIMS
Nobuhiro Tsuji	Kyoto University
Minoru Umemoto	Toyohashi University of Technology
Alexei Vinogradov	Osaka City University
Tohru Yamasaki	University of Hyogo

Organizing Committee

<KU P&P>

Makoto Arita	Kyushu University
Satoshi Hata	Kyushu University
Kenji Higashida	Kyushu University
Zenji Horita	Kyushu University
Yoshifumi Ikoma	Kyushu University
Masayoshi Inoue	Kyushu University
Takanobu Kiss	Kyushu University
Hideharu Nakashima	Kyushu University
Masaki Tanaka	Kyushu University

<MEXT Bulk Nanostructured Metals>

Kei Ameyama	Ritsumeikan University
Zenji Horita	Kyushu University
Masaharu Kato	Tokyo Institute of Technology
Hiroshi Miura	University of Electro- Communications
Shigenobu Ogata	Osaka University
Tomotsugu Shimokawa	Kanazawa University
Koichi Tsuchiya	NIMS
Nobuhiro Tsuji	Kyoto University
Tohru Yamasaki	University of Hyogo
Jun Yanagimoto	University of Tokyo

Topics

1. Multifunctional capability produced by SPD process
2. Mechanisms for multifunctional properties
3. Analysis and evaluation of multifunctional materials
4. Potential applications of multifunctional materials
5. Review of past research.

(Note: multifunctional material is defined in this symposium any single material exhibiting more than two properties.)

Presentation

Presentation follows a rule of “one paper per person”.

Language

All presentations will be given in English.

Symposium Schedule

November 19, 2010 (Friday)

17:00-19:00 : Registration and **Welcoming Reception** at Nishijin Plaza

November 20, 2010 (Saturday)

8:30-17:30 : Opening announcement and Oral sessions

November 21, 2010 (Sunday)

9:00-17:30 : Oral sessions

19:00-21:00 : **Banquet**

November 22, 2010 (Monday)

9:00-12:00 : Oral sessions and General Discussion

13:30-16:00 : Tour to Ito campus of Kyushu University

Abstract and presentation summary

Keynote and Invited speakers: abstract and summary of 4 pages in A4 (letter) size.

Contributed speakers: abstract of 1/2 pages in A4 (letter) size.

Send to the Symposium Secretariat by e-mail attachment through

[<gsam2010@zauko6.zaiko.kyushu-u.ac.jp>](mailto:gsam2010@zauko6.zaiko.kyushu-u.ac.jp).

For the abstract template, see the symposium website:

<http://www.congre.co.jp/gsam2010/call2.html>

The submission should be made **by October 29, 2010**.

Registration

Participants are kindly requested to make advanced registration to take advantage of reduced rate of registration fee. Please visit the symposium website for registration,

<http://www.congre.co.jp/gsam2010/registration.html>

Registration Fee

	before October 31, 2010	after November 1, 2010
Regular:	¥ 35,000	¥ 40,000
Students:	¥ 20,000	¥ 20,000

- (1) Regular fee includes participation, program and abstract booklet, proceedings, welcome reception, banquet, coffee.
- (2) All registration should be made through the conference website:
<http://www.congre.co.jp/gsam2010/registration.html>

Confirmation

Upon receipt of the registration form and acknowledgement of payment, the secretariat will send a Confirmation Card/Receipt containing your registration number. Please bring this card to the registration desk when you arrive at the symposium site.

Cancellation

The registration fee will be refunded only for cancellations received in writing to the secretariat. The following cancellation and bank charges will be deducted from the fees paid. Please indicate clearly the bank, branch, and account name and number to which the refund should be made.

On or after November 1, 2010 No refund

If for reasons beyond the control of organizers, the symposium is cancelled, the registration fee will be refunded after deductions for expenses already incurred.

On-site Registration

The Registration Fees can be paid by cash (only Japanese yen will be accepted) at the reception desk for the duration of the symposium.

Access to Fukuoka

Fukuoka airport is accessed easily from three major international airports in Japan: Narita International Airport (Tokyo), Kansai International Airport (Osaka) and Nagoya International Airport. Fukuoka is also connected directly to many Asian cities. Those who arrive at Narita Airport may take a bus or train to Haneda Airport (Tokyo) where more frequent domestic flight services to Fukuoka are available. Fukuoka is also reached by JR high-speed Shinkansen (bullet) trains running from Tokyo through Nagoya, Kyoto and Osaka. Fukuoka is the terminus of the high-speed Shinkansen called the JR Hakata Station.

Transportation

In Fukuoka, the subway originates from Fukuoka airport (**Fukuoka Kuko**) and it goes through the **JR Hakata Station**. You get off at the **Nishijin** station after 20-minute ride from the Fukuoka airport or after 13-minute ride from the JR Hakata station. You then walk to the symposium site (Nishijin Plaza) for about 10 min.

For Nishijin Plaza, <http://www.kyushu-u.ac.jp/university/institution-use/nishijin/infomap.htm>

Accommodation

Hotels must be booked individually. Symposium secretariat suggests participants to find hotels along the subway line for your easy access to the symposium site, Nishijin Plaza..

Passports and Visas

All foreign participants entering Japan must possess valid passports. Those living in visa-requiring countries should apply to Japanese Consulate, even when trying to enter Japan through non-visa-requiring countries. Please consult your local travel agencies for detailed information.

Invitation Letters

On request, a personal invitation letter will be issued from the Symposium Chairman to participants to help them in raising travel funds or in obtaining a visa. Such an invitation is not a commitment of the organizer to provide any financial support.

Foreign Currency Exchange

Foreign currencies can be exchanged into Japanese yen at International Airports and major banks and big hotels in downtown area.

Tip

Tips are usually not required in hotels, restaurants and taxis in Japan.

Climate

It may be moderate in late November in Fukuoka. The temperature can be about 15 °C during daytime. However, the temperature may go down below 10 °C for night and early morning.

Key Dates

October 29, 2010	Abstract (1/2-page A4 size) Due (All speakers)
October 29, 2010	Summary (4-page A4 size) Due (Keynote and Invited speakers only)
October 31, 2010	Deadline for Pre-registration
November 19, 2010	Welcome Reception
November 19- 22, 2010	GSAM2010 Symposium

Supporting Organizations (予定)

[The Japan Institute of Metals](#)

[The Iron and Steel Institute of Japan](#)

[The Japan Institute of Light Metals](#)

[The Japan Society for Technology of Plasticity](#)

[The Japan Society of Mechanical Engineers](#)

[Japan Copper and Brass Association](#)

[The Japanese Society of Microscopy](#)

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