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 Grüssinger  
Vienna University of Technology, Austria
Hyoun 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
Hiromi Miura  
Kyushu University
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

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Kyushu University
Masaki Tanaka  
Kyushu University

<MEXT  Bulk Nanostructured Metals>

Kei Ameyama  
Ritsumeikan University
Zenji Horita  
Kyushu University
Masaharu Kato  
Tokyo Institute of Technology
Hiromi 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
Contributed speakers: abstract of 1/2 pages in A4 (letter) size.
Send to the Symposium Secretariat by e-mail attachment through
<gsam2010@zaiko6.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

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<th>before October 31, 2010</th>
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<tr>
<td>Regular:</td>
<td>¥ 35,000</td>
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<td>Students:</td>
<td>¥ 20,000</td>
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(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](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
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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