



ISAMMA 2010

July 12-16, Sendai, Japan

Abstract deadline : February 28, 2010

Sponsored by

- The Magnetics Society of Japan
- The Korean Magnetics Society
- The Taiwan Association for Magnetic Technology
- The Chinese Society for Magnetic Materials and Application
- Vietnam Physical Society
- The Data Storage Institute (Singapore)

Message from the Chair:

It is a pleasure to invite all the members of the international scientific and engineering community to attend the International Symposium on Advanced Magnetic Materials and Application, ISAMMA 2010, which will be held from July 12 (Mon), until July 16 (Fri), at the International Center in Sendai, Japan.

ISAMMA is a consolidation of the former international conferences under three different organizations, i.e.,
- **ISPMM** (Int'l Symp. on Phys. of Magn. Mater.) of Japan,
- **SOMMA** (Int'l Symp. on Magn. Mater. and Applications) of Korea, and
- **ISAMT** (Int'l Symp. on Spintronics and Advanced Magnetic Technologies) of Taiwan.

Sendai, the conference venue, is the center of the economy, industry, and culture of northeastern Japan and is known also as the "City of Trees". The city possesses beautiful scenery, such as the Hirose River that runs through central Sendai, and the lush Zelkova trees that line the central city. On behalf of the Organizing Committee of ISAMMA 2010, I look forward to seeing you in Sendai.
Sincerely,

Migaku Takahashi (Tohoku Univ.)
Chairman of ISAMMA 2010

<http://www.ecei.tohoku.ac.jp/isamma2010/>



ISAMMA 2010

International Symposium on Advanced Magnetic Materials and Applications
July 12-16, Sendai, Japan

ABSTRACT SUBMISSION

- Abstract submission is already open since January 15, 2010.
- The deadline for abstract submission is February 28, 2010.
- All abstracts must be submitted via the web ONLY.
- Abstract should be in the form of 1 page summary.

REGISTRATION

-Advanced registration will open in April, 2010 via the web and close in May, 2010.

PUBLICATIONS

The proceedings of the symposium will be published as a special issue of Journal of Physics D and Journal of Physics Conference Series. Journal of Physics D will contain the invited and the selected contributed papers. Other contributed papers will appear in Journal of Physics Conference Series. All the papers will be refereed in the usual way for the papers published in the Journal of Physics. Paper submission will start from March, 2010 and close in May, 2010.

IMPORTANT DATES

April, 2009 : 1st Circular
 January, 2010 : 2nd Circular
 February 28, 2010 : Abstract Submission Ends
 April, 2010 : Acceptance Notification for Abstracts
 May 31, 2010 : Advanced Registration Ends
 May 31, 2010 : Full-paper Submission Ends
 July, 2010 : ISAMMA2010 Opens

PROGRAM CATEGORIES

- 1. Fundamental Properties of Magnetic Materials :**
 Electronic Structure, Itinerant Magnetism, Critical Phenomena, Strongly Correlated Systems, Superconductivity, Domains, Magnetic anisotropy, Magnetostriction, Magnetization Process
- 2. Hard/Soft Magnetic Materials and Applications :**
 Rare-Earth Transition Metal Borides,
 Intermetallic and Other Hard Magnetic Materials,
 Nanostructured Hard Magnetic Materials,
 Hard Magnet Processing and Applications,
 Ferrites, Garnets and Other Microwave Materials,
 Crystalline Alloys, Amorphous/Nanocrystalline Materials
- 3. Spintronics Materials and Devices :**
 Magnetoresistive Materials (TMR, GMR, AMR), Magnetic Semiconductors, MRAM, Magnetic Logic Devices, Spin Polarization, Spin Injection, Spin Transfer, Spin Current and Spin Hall Effect
- 4. Structured Materials :**
 Ultra-Thin Films and Surface Effects,
 Multi-Layer Films and Superlattices,
 Exchange Bias, Patterned Films, Nanoparticles, Self-Assembly
- 5. Multi Functional Magnetic Materials :**
 Magneto-Optic Materials, Magneto-Elastic Materials,
 Magneto-Caloric Materials, Molecular Magnets,
 Multiferroic Materials, New Magnetic Materials
- 6. Spin Dynamics and Micromagnetics :**
 Magnetization Dynamics and Damping, Ultrafast Switching, Domain Wall and Vortex Dynamics, Numerical Methods, Micromagnetic Modeling
- 7. Magnetic Storage :**
 Continuous Recording Media, Energy Assisted Recording, Discrete Track and Patterned Media Recording, Magnetoresistive Heads (CPP, CCP, TMR), Inductive Heads, Recording Head Materials, Alternative Magnetic Storage
- 8. Materials for Applications (Sensors, High Frequency, Power, and Bio/Medical devices) :**
 Magnetic Sensors (not magnetic recording), Magnetic Shielding, Microwave and Millimeter Wave Devices, MEMS, Transformers and Inductors, Motors and Actuators, Levitation and Propulsion, Bio/Chemical Magnetism, Biomagnetic Applications, Magnetic Fluids and Separations, New Applications
- 9. Magnetic Imaging and Characterization :**
 Electron Microscopy, X-ray Imaging Techniques, Magneto-Optical Imaging, Magnetic Microscopy and Imaging, Other Imaging Techniques, Instrumentation and Measurement Techniques