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MORIS 2009 WORKSHOP

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FINAL CALL FOR PAPERS

MORIS 2009

Deadline for Abstract:
March 2, 2009

June 16 - 18, 2009

Awaji Yumebutai International Conference Center
Awaji, Hyogo, Japan

<http://mst.nagaokaut.ac.jp/~moris2009>

INTRODUCTION

The 12th MORIS 2009 will be held in Japan in 2009. The conference will cover combined effects of optical, thermal and magnetic natures from fundamental new materials to application of functional media. The scope is shown as below. Using a recent advanced nano structure technology, the size can be less than optical wavelength, then the electric permittivity and magnetic permeability are strongly affected due to the influences of electron and spin response by local plasmon effect. After that, the average property can be controlled, such as a metamaterial (a negative refractive index) and a photonic crystal devices. On the other hand, laser optics and magnetic recording media can be applied to heat assisted magnetic recording (HAMR), which is desired for future high density HDD. When 100 femtosecond pulse laser is irradiated to a recording media, the data rate could be beyond the limit of the conventional magnetic recording, because the pulse laser in a flush breaks the magnetic ordering, then ultra fast spin reversal can be realized. And also, a new magnetic recording method without switching magnetic field can be performed with only polarity change of circular polarized light. This is named as all optical recording. Thus, MORIS 2009 will have hot discussions with synergic effects of optically, thermally and magnetically phenomena.

MORIS 2009 is sponsored by The Magnetics Society of Japan in cooperation with the following academic societies.

- The IEEE Magnetics Society
- The IEEE Magnetics Society Japan Chapter
- The IEEE Japan Council
- Materials Research Society
- Materials Research Society of Japan
- The Japan Society of Applied Physics
- The Physical Society of Japan
- The Institute of Electrical Engineers of Japan
- The Institute of Electronics Information and Communication Engineers
- The Institute of Image Information and Television Engineers
- Optoelectronic Industry and Technology Development Association
- Optical Society of Japan
- Japan Optomechatronics Association
- Storage Research Consortium
- IDEMA JAPAN

SCOPE

MORIS (Magnetics and Optics Research International Symposium for New Storage Technology) will be provided for all researchers and engineers who are interested in new technologies for future data storage. MORIS gives a good opportunity for fruitful discussions about not only the basic research of thermal, magnetic, and optical physics, but also the recent applications such as spintronics, nano-fabrication technologies, and novel optical/magnetic materials. You can see variety of scopes for discussion in the following list.

MORIS is a single session conference with two kinds of presentations, oral presentations and poster presentations. All of the oral presentations are the invited papers, and have enough time for discussion. Contributed papers are presented at poster sessions. You will be able to enjoy your comfortable discussion to the full. Please don't hesitate to join us. We welcome your active participation!!

1. Heat Assisted Magnetic Recording (Head integration, Surface Plasmon Resonance, Antenna Devices, Recording Physics)
2. Functional Media for High Density Recording (Patterned Media, Multilayer, High Ku Material)
3. Nano Structures, New Materials (Nano Particles, Patterned Structure)
4. Fast Spin Reversal Phenomena (Pump & Probe, All-optical Magnetic Recording)
5. New Devices & Fabrication Technologies (MRAM, Magnetic Semiconductor, Spintronics, Metamaterials, Magnetic Dot Memory)
6. Magneto-Optical Phenomena & Devices (MOSLMs, Nonlinear Effect, Magnetophotonic Crystals)
7. Thermo-magnetic Phenomena (Thermodynamics Theory & Simulation)

IMPORTANT DATES

Tutorial:	June15, 2009
Symposium:	June16 - 18, 2009
Abstract deadline:	March 2, 2009
Advance registration finishes:	May 14, 2009
Regular registration begins:	May 15, 2009
Hotel accommodation finishes:	June 5, 2009
Proceedings due:	May 14, 2009

INVITED PRESENTATIONS

MORIS 2009 will be provided for all researchers and engineers who are interested in new technologies for future data storage. MORIS is a single session conference with two kinds of presentations, the oral presentation and the poster presentation. All of the oral presentations are the invited papers, and following speakers are planned for serving invited presentation.

Tutorial Speakers

K. Sato (Japan Science and Technology Agency)
B.Terris (Hitachi GST)

Preliminary Invited Speakers (*under negotiation)

E. Gage(Seagate) -HAMR Head integration
S. Hasegawa(FUJITSU LAB. LTD.) -HAMR Light delivery
T. Matsumoto(Hitachi Resrach) -SPR
S. Miyanishi(Sharp) -Antenna devices
J. Zhang(DSI) -HAMR Lubricant
T.H. Wu(Yunlin Univ. Sci. Tech.) -Patterned Media
H. Oshima(Fujitsu) -Patterned Media
R. Horie(Canon) -Patterned Media
S. Xiao(Seagate) -Patterned Media
T. R. Albrecht(Hitachi GST) -Patterned Media
R.W.Chantrell(Univ. of York) -Multilayer
S. Nakagawa(Tokyo Inst. Tech.) -High Ku materials
A. Ito(Nihon Univ.) -High Ku materials
N. Kikuchi(Tohoku Univ.) -Nano particles
A. Nakajima(Keio Univ.) -New Materials
Y. Endo(Tohoku Univ.) -Patterned film/structure
S. S. P. Parkin(IBM Almaden) -Patterned film/structure
J.Y. Bigot(Inst. Phys. Chim. Mat.) -Patterned film/structure
Th. Rasing(Radboud Univ. Nijmegen)
-All optical magnetic recording
J. Zhu(C.M.U.) -Fast reversal / Therory
H. Munekata(Tokyo Inst. Tech.) -Fast reversal / Therory
M. Igarashi(Hitachi Resrach) -Fast reversal / Therory
S. Bluegel*(Inst. fur Festkoerperforschung) -Spintronics
S. Shiraishi(Osaka Univ.) -Spintronics
T. Tanaka(RIKEN) -Left-handed materials
H. Giessen(Phys. Inst. Univ. Stuttgart) -Left-handed materials
M. Inoue(Toyohashi Univ. of Tech.) -MOSLMs
T. Mizumoto(Tokyo Inst. Tech.) -MOSLMs
J. Bain(C.M.U.) -Thermo-magnetic simulation
S. J. Greaves(Tohoku Univ.) -Thermo-magnetic simulation

CONTRIBUTED PAPERS AND PREPARATION OF ABSTRACT

In this MORIS, the oral sessions will be constituted of invited presentations. The contributed papers will be allocated to the poster session in principle, and they are endowed with the right to take fairly their award, i.e. "Best Poster Award".

All the authors should submit a two-page abstract which is prepared in Portable Document Format (as a pdf file), regardless of their session type. Paper acceptance is based on abstract submission. The Abstract must be submitted via

<http://mst.nagaokaut.ac.jp/~moris2009/>

Please note that after 12:00 noon of March 2, the abstract submission website will automatically be closed and submissions will no longer be accepted.

Deadline for submission: March 2, 2009 (JST)

Authors are requested to submit an electronic version of their abstract written in English. All electronic documents for the abstract should be prepared in Portable Document Format (as a .pdf file). The abstract must be written within a 17 cm ~ 22 cm rectangular area for offset reproduction on A4-size paper and must be limited to two pages in length, including figures, tables, results, discussion and references. A sample format and instructions for preparing the abstract is available on the website of Abstract Template. The decision will be notified by e-mail until the beginning of April 2009. Please note that no submission by Fax will be accepted.

SUBMISSION OF PAPERS

Authors of papers accepted in MORIS 2009 are encouraged to submit the original and significant part of the papers to the Special Issue of the Journal of the Magnetics Society of Japan (JMSJ), which will be published in November 2009. The deadline of the paper submission is May 14, 2009. Those who wish to submit a paper to the special issue should follow the instructions for preparation of manuscript (will be available in the end of March).

Please note that the manuscript will be published after the usual review process in JMSJ. The special issue is not just proceedings of MORIS 2009.

REGISTRATION FEES

Registrations and Hotel reservations should be made online. The following fees will be applicable to the MORIS 2009.

	before May 14	after May 15
Member	JPY 45,000	JPY 50,000
Non-member	JPY 50,000	JPY 55,000
Student/Retirees	JPY 6,000	JPY 8,000

The minimum package covers admission to all the technical sessions of the workshop. Welcome Reception, Coffee/tea breaks, the technical Digest and the Journal of MSJ (not free for students/retirees) are included.

ACCOMMODATIONS

Awaji Yumebutai International Conference Center is placed at Awaji Island where the romance of magnificent Japanese mythology and natural scenery still exist. The location is easily accessible from Kobe and Osaka via the Akashi Kaikyo Bridge. You can access Awaji Yumebutai in 2 hours from Kansai International Airport and 1 hour 30 minutes from Osaka International Airport by Highway Bus. For detailed information on hotel accommodation, Please visit our web site. Reservation of the hotel is available via our web site.

ADDITIONAL INFORMATION

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