

## **Indo-Japan Joint Seminar on Novel giant-magnetoresistive materials and their electronic structures**

**Sponsored by  
The Japan-India Scientific Cooperative Program (DST-JSPS)**

### **Purpose:**

To present discuss and analyse latest trends in various experimental and theoretical aspects of magnetic materials with particular emphasis on their synthesis electronic structure and magnetoresistive properties. Substantial part of the meeting is expected to deal with transition metal oxide and dilute magnetic semiconductor based materials; however, other novel and exotic materials and/or phenomena are not excluded. While this meeting envisages primary participation from Japanese and Indian scientists, we expect active participation from a few of the leading experts from other countries as well, enriching the proceedings of the meeting.

### **Tentative Schedule:**

**Dates : January 29 - February 02, 2006.**

**Venue : SSCU Auditorium,**

**Place : Solid State and Structural Chemistry Unit,  
Indian Institute of Science,  
Bangalore - 560 012. INDIA.**

### **Convenors:**

**D. D. Sarma, Indian Institute of Science, Bangalore. INDIA.**

**A. Fujimori, University of Tokyo. JAPAN.**



**Joint Seminar on**  
**Novel Giant-Magnetoresistive Materials and their Electronic Structures**

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Bangalore 560 012  
India**

**<http://sscu.iisc.ernet.in/Sarma/GMRconf-fpage.html>**





## Indo-Japan Joint Seminar on

# Novel giant-magnetoresistive materials and their electronic structures

### Confirmed List of speakers:

#### Speakers from India:

**P. Chaddah (UGC-DAE CSR, Indore)**  
**G. P. Das (IACS, Kolkata)**  
**Indranil Das (Saha Institute of Nuclear Physics, Kolkata)**  
**S. Dattagupta (SN Bose Centre, Kolkata)**  
**J. Gopalakrishnan (IISc, Bangalore)**  
**H. R. Krishnamurthy (IISc, Bangalore)**  
**P. Mahadevan (SN Bose Centre, Kolkata)**  
**T. V. Ramakrishnan (Benaras Hindu University, Benaras)**  
**C. N. R. Rao (JNCASR, Bangalore)**  
**P. Raychaudhuri (TIFR, Mumbai)**  
**A. K. Raychaudhuri (SN Bose Centre, Kolkata)**  
**T. Saha-Dasgupta (SN Bose Centre, Kolkata)**  
**E. V. Sampathkumaran (TIFR, Mumbai)**  
**D. D. Sarma (IISc, Bangalore)**  
**V. B. Shenoy (IISc, Bangalore)**  
**C. S. Sundar (IGCAR, Kalpakkam)**  
**U. Waghmare (JNCASR, Bangalore)**

#### Speakers from Japan:

**A. Fujimori (University of Tokyo)**  
**H. Katayama-Yoshida (Osaka University)**  
**H. Tanaka (Osaka University)**  
**Y. Ueda (University of Tokyo)**

#### Speakers from other countries:

**S. Das Sarma (University of Maryland, USA)**  
**D. -J. Huang (NSRRC & National Tsing Hua University, Taiwan)**  
**J. Moodera (MIT, USA)**  
**S. -J. Oh (Seoul National University, Korea)**  
**Jaejun Yu (Seoul National University, Korea)**





The 2nd Indo-Japan Seminar  
**"Novel Magnetic Materials and their Electronic Structures"**

University of Tokyo, February 27-March 1, 2007

supported by

Japan Society for the Promotion of Sciences (JSPS)  
Department of Science and Technology, India (DST)

Venue

Invited speakers

Program   [abstract](#)   [photos](#)

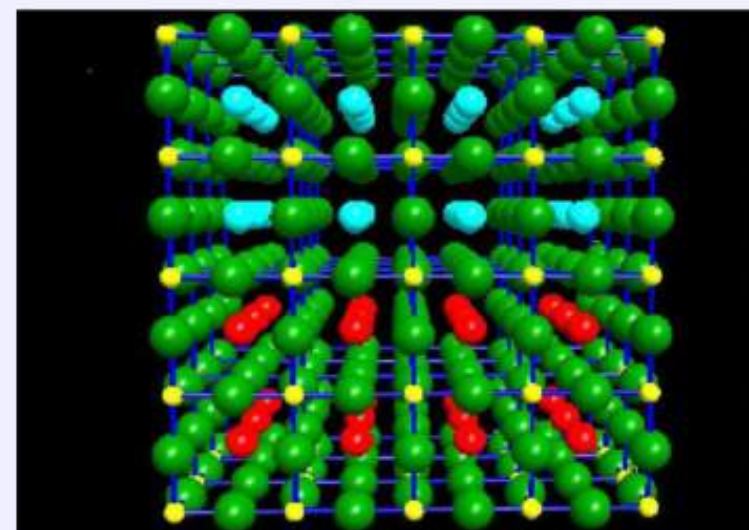
Poster presentations

Registration and abstract submission

1st seminar (Bangalore)

**Scope**

Giant magnetoresistive manganese oxides  
Multiferroics  
Novel magnetism at interfaces  
Complex magnetism  
Ferromagnetic semiconductors  
Orbital phenomena  
Experimental and computational methods



**Co-organizers**

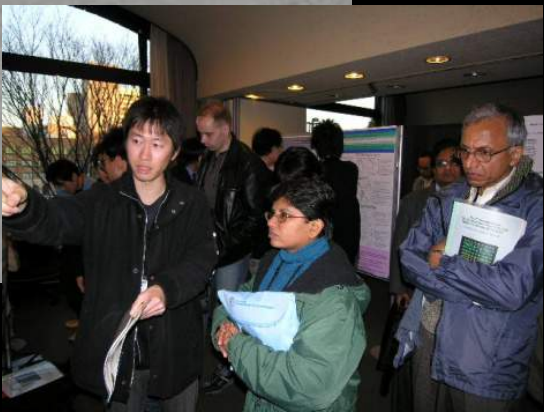
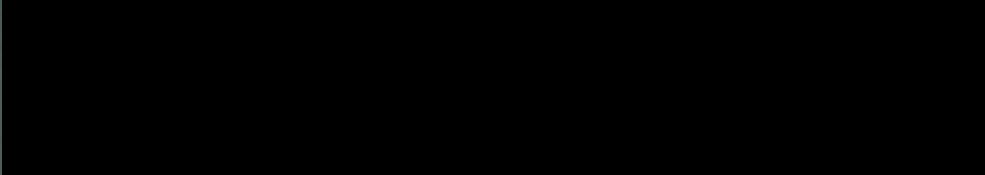
A. Fujimori (University of Tokyo), D.D. Sarma (Indian Association for the Cultivation of Science)

contact: A. Fujimori: [fujimori@phys.s.u-tokyo.ac.jp](mailto:fujimori@phys.s.u-tokyo.ac.jp) /Ms. A. Fukuya, [fukuya@wyvern.phys.s.u-tokyo.ac.jp](mailto:fukuya@wyvern.phys.s.u-tokyo.ac.jp)

## Invited speakers [home](#)

N. Hamada	Tokyo U. of Science
T. Hotta	JAEA, Tokai
M. Imada	U. of Tokyo
M. Kawasaki	IMR, Tohoku U.
K. Sato	Osaka U
T. Kimura	Bell Labs, Lucent Tech
T. Koide	IMSS-PF, Tsukuba
H.R. Krishnamurthy	IISc, Bangalore
P. Mahadevan	SNBCBS, Kolkata
P. Majumdar	HRI, Allahabad
S. Mori	Osaka Prefecture U.
A.K. Raychaudhuri	SNBCBS, Kolkata
T. Saha-Dasgupta	SNBCBS, Kolkata
O. Sakai	Tokyo Metropolitan U
D.D. Sarma	IACS, Kolkata
A. Tanaka	Hiroshima U.
H. Tanaka	Osaka U.
Y. Tokura	U. of Tokyo
Y. Tomioka	AIST, Tsukuba
Y. Ueda	ISSP, U. of Tokyo
U. Waghmare	JNCAR, Bangalore







**3rd Indo-Japan Conference on Ferroics and Multiferroics**  
(under the aegis of DST-JSPS Program)  
4-6 February 2008, Kolkata

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CAM  
IACS  
Kolkata  
West Bengal Tourism  
Weather

## Objective

Strongly correlated systems, especially transition-metal oxides, have attracted major interest in condensed matter research. Those systems are characterized by their “giant responses” arising from competition between different interactions and different phases. Recently, so-called multiferroic materials, in which responses are induced by a non-conjugate stimulus (such as magnetization induced by electric field), have attracted particularly strong interest from both basic science and application points of view. The major purpose of this seminar is to present and discuss about cutting-edge sciences in the field of strongly correlated systems, in particular, of multiferroic oxides among leading scientists from Japan and India. Since both countries have long tradition and outstanding achievement in the studies of transition-metal oxides, it is highly fruitful for material scientists from the two countries to get together and discuss about the most important issues in the following subjects. The participants will be experts in new material synthesis, accurate measurements and advanced theories related to those materials.

## Research Areas Covered

1. Multiferroic Materials
2. Spintronics Materials
3. Giant magnetoresistive materials
4. Novel phenomena at interfaces

## Organised By

Indian Association for the Cultivation of Science, Kolkata  
S.N. Bose National Centre for Basic Sciences, Kolkata

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**Welcome to IACS and the City of Kolkata**



**3rd Indo-Japan Conference on Ferroics and Multiferroics**  
(under the aegis of DST-JSPS Program)  
4-6 February 2008, Kolkata

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### Tentative List of Speakers

Dipten Bhattacharya, CGCRI, Kolkata, India  
R.C. Budhani, IIT-Kanpur, India  
P. Chaddah, UGC-DAE CSR, Indore, India  
Cheng-Hsuan Chen, NTU, Taiwan  
Indra Dasgupta, IACS, Kolkata, India  
Susanta Dattagupta, IISER, Kolkata, India  
B.N. Dev, IACS, Kolkata, India  
Atsushi Fujimori, University of Tokyo, Japan  
Di-Jing Huang, NSRRC, Taiwan  
Hiroshi Katayama-Yoshida, Osaka University, Japan  
Masashi Kawasaki, Tohoku University, Japan  
P. Mahadevan, SNBNCBS, Kolkata, India  
Pinaki Majumdar, HRI, Allahabad, India  
Yutaka Moritomo, Tsukuba University, Japan  
Maxim Mostovoy, University of Groningen, Netherlands  
Janice Musfeldt, University of Tennessee, USA  
Beatriz Noheda, University of Groningen, Netherlands  
Satish Ogale, NCL, Pune, India  
C.N.R. Rao, JNCASR, Bangalore, India  
Sugata Ray, IACS, Kolkata, India  
A. K. Raychaudhuri, SNBNCBS, Kolkata, India  
T. Saha-Dasgupta, SNBNCBS, Kolkata, India  
E.V. Sampathkumaran, TIFR, Mumbai, India  
M.K. Sanyal, SINP, Kolkata, India  
S. Sengupta, SNBNCBS, Kolkata, India  
Nicola Spaldin, UCSB, USA  
Hitoshi Tabata, Osaka University, Japan  
Hidekazu Tanaka, Osaka University, Japan  
Gen Tatara, Tokyo Metropolitan University, Japan  
Umesh Waghmare, JNCASR, Bangalore, India  
S.M. Yusuf, BARC, Mumbai, India







**The 4th Indo-Japan Seminar**  
**"Electronic Structure of Novel Magnetic and Superconducting Materials"**

University of Tokyo, February 1-2, 2011

supported by

Japan Society for the Promotion of Sciences (JSPS)

Department of Science and Technology, India (DST)

**Venue** [weather in Tokyo](#)

**[Invited speakers](#)**

**[Program](#)** [abstract](#)

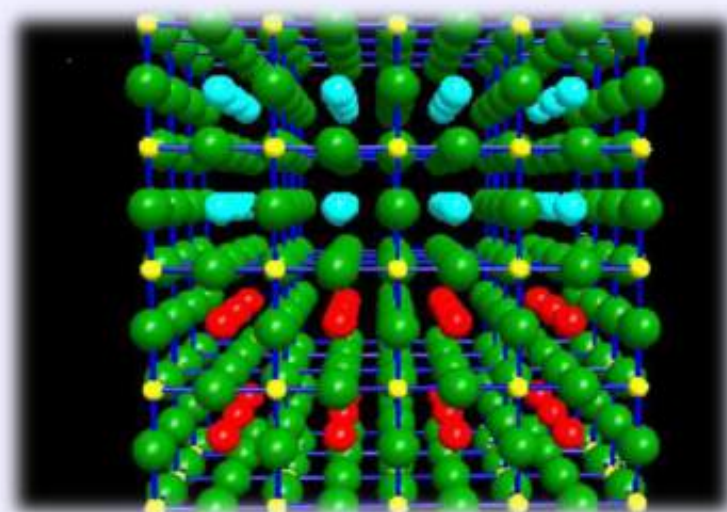
**[Poster presentations](#)**

**[Registration and abstract submission](#)** deadline extended to Jan. 26

**[Previous conferences](#)**

**Scope**

Transition-metal oxides  
Multiferroics  
Novel phenomena at interfaces  
Magnetism of correlated materials  
Ferromagnetic semiconductors  
Iron-based superconductors



**Organizers**

A. Fujimori (University of Tokyo), D.D. Sarma (Indian Institute of Science)

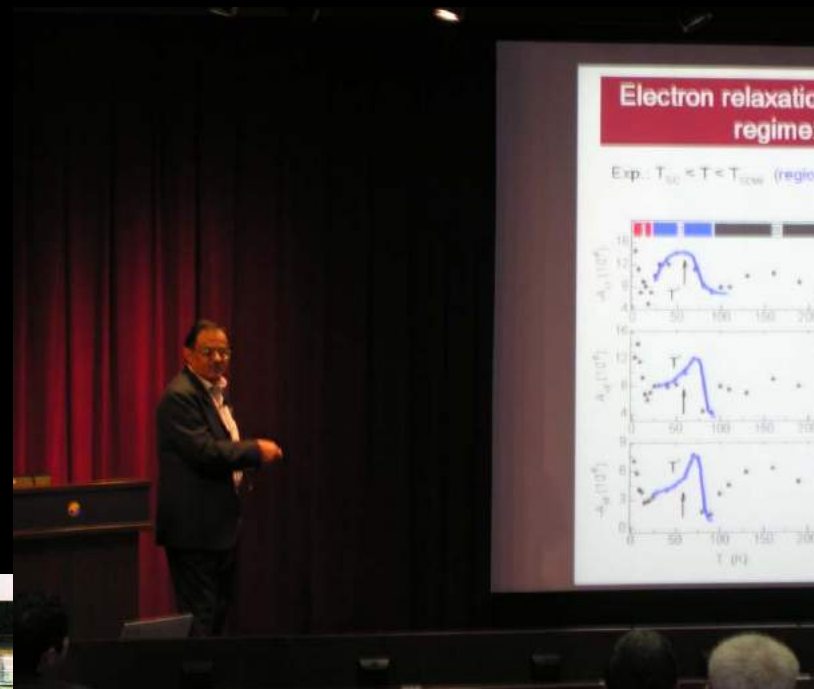
contact: Atsushi Fujimori: [fujimori@phys.s.u-tokyo.ac.jp](mailto:fujimori@phys.s.u-tokyo.ac.jp) /Ms. Emiko Murayama, [murayama@wyvern.phys.s.u-tokyo.ac.jp](mailto:murayama@wyvern.phys.s.u-tokyo.ac.jp)

## Invited speakers [home](#)

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Ryotaro Arita	University of Tokyo
Masaki Azuma	Tokyo Institute of Technology
Suvankar Chakraverty	RIKEN
Ashok K. Ganguli	Indian Institute of Technology Dehli
Zenji Hiroi	University of Tokyo
Harold Y. Hwang	University of Tokyo
Hiroshi Katayama-Yoshida	Osaka University
Masashi Kawasaki	University of Tokyo
Krishnakumar S. R. Menon	Saha Institute of Nuclear Physics
Avinash V. Mahajan	Indian Institute of Technology Bombay
Kalobaran Maiti	Tata Institute of Fundamental Research
E. V. Sampathkumaran	Tata Institute of Fundamental Research
D. D. Sarma	Indian Institute of Science
Parasharam M. Shirage	National Institute of Advanced Industrial Science and Technology
Ajay K. Sood	Indian Institute of Science
Hitoshi Tabata	Universtiy of Tokyo
Hidenori Takagi	University of Tokyo
Hidekazu Tanaka	Osaka University
Yoshinori Tokura	Univerisity of Tokyo
Kohei Yoshimatsu	Univerisity of Tokyo









## SOLID STATE AND STRUCTURAL CHEMISTRY UNIT

Indian Institute of Science, Bangalore, INDIA

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### Indo - Japan Conference

**"New functionalities in electronic and magnetic materials ".**

**October 18-20,2012, SSCU-IISc, Bangalore, INDIA**

**(Supported under the DST-JSPS bilateral program)**

- Introduction
- Facilities
- Seminar
- Awards
- Photo Gallery
- Archive
- Alumni

#### Main topics to be covered

**Electronic and magnetic properties of new functional materials studied by spectroscopy, electronic structure calculations and other advance techniques.**

- Participants- List
- Programme
- Book Abstract

A Sundaresan	JNCASR
Ajay Sood	IISc
Arindam Ghosh	IISc
Ashok Ganguly	IIT Delhi
Atsushi Fujimori	Univesity of Tokyo
C. N. R. Rao	JNCASR
Debraj Choudhury	RIKEN, Japan
E. V. Sampathkumaran	TIFR, Mumbai
Hiddenori Takagi	Univesity of Tokyo
Hiroshi Katayama-Yoshida	Osaka University
Hitoshi Tabata	Univesity of Tokyo
Indra Dasgupta	IACS, Kolkata
Jobu Matsuno	RIKEN, Japan
Kalobaran Maiti	TIFR, Mumbai
Kanishka Biswas	JNCASR
Masaki Azuma	Tokyo Institute of Technology
Masashi Kawasaki	Univesity of Tokyo
Pinaki Majumdar	HCRI, Allahabad
Priya Mahadevan	SNBNCBS, Kolkata
S. Ramasesha	IISc
Sudhakar Yarlagadda	SINP, Kolkata
Suvankar Chakraverty	RIKEN
Takafumi Sato	Tohoku Univesity
Tanusri Saha Dasgupta	SNBNCBS, Kolkata
Umesh Waghmare	JNCASR
Vijay B. Shenoy	IISc







# The 6th Indo-Japan Seminar

## Physics and Design of Multi-Functional Correlated Materials

University of Tokyo, March 24-25, 2014

supported by

Japan Society for the Promotion of Sciences (JSPS)

Department of Science and Technology, India (**DST**)

RIKEN

Masaki Azuma

Ramesh Budhani

Suvankar Chakraverty

Debraj Choudhury

Mandar Deshmukh

Arindam Ghosh

Hiroshi Katayama-Yoshida

Masashi Kawasaki

Tsuyoshi Kimura

Jobu Matsuno

Takashi Mizokawa

Satish Ogale

Kozo Okazaki

Naurang L. Saini

D. D. Sarma

Krishnendu Sengupta

Subhra Sen Gupta

Ajay K. Sood

Hitoshi Tabata

Hidenori Takagi

Masaaki Tanaka

Yoshinori Tokura

Tokyo Institute of Technology

National Physical Laboratory

RIKEN

RIKEN

Tata Institute of Fundamental Research

Indian Institute of Science

Osaka University

RIKEN, University of Tokyo

Osaka University

RIKEN

University of Tokyo

National Chemical Laboratories, Pune

University of Tokyo

Universita di Roma La Sapienza

Indian Institute of Science

Indian Association for the Cultivation of Science

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# The 6th Indo-Japan Seminar

## Physics and Design of Multi-Functional Correlated Materials

University of Tokyo, March 24-25, 2014

supported by

Japan Society for the Promotion of Sciences (JSPS)

Department of Science and Technology, India (**DST**)

RIKEN

