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## INTERNATIONAL CONFERENCE ON

# SOLID STATE

# DEVICES AND MATERIALS

Conference **September 25-27, 2012**

Short Course **September 24, 2012**

Place **Kyoto International Conference Center**

### SCOPE OF CONFERENCE

#### CORE AREAS

- 1 Advanced LSI Processing & Materials Science  
(Chair: T. Nabatame, NIMS)
- 2 Advanced Interconnect / Interconnect Materials and Characterization  
(Chair: S. Ogawa, AIST)
- 3 CMOS Devices / Device Physics  
(Chair: D. Hisamoto, Hitachi)
- 4 Advanced Memory Technology  
(Chair: M. Moniwa, Renesas Electronics Corp.)
- 5 Advanced Circuits and Systems  
(Chair: T. Koide, Hiroshima Univ.)
- 6 Compound Semiconductor Electron Devices and Related Technologies  
(Chair: Y. Miyamoto, Tokyo Tech)
- 7 Photonic Devices and Optoelectronic Integration  
(Chair: Y. Tanaka, Fujitsu Labs. Ltd.)
- 8 Advanced Material Synthesis and Crystal Growth Technology  
(Chair: H. Hibino, NTT Corp.)
- 9 Physics and Applications of Novel Functional Devices and Materials  
(Chair: H. Gotoh, NTT Corp.)
- 10 Organic Materials Science, Device Physics, and Applications  
(Chair: H. Usui, Tokyo Univ. of Agri. & Tech.)

#### STRATEGIC AREAS

- 11 Devices and Materials for Biology and Medicine  
(Chair: K. Ajito, NTT Corp.)
- 12 Spintronics Materials and Devices  
(Chair: M. Yamamoto, Hokkaido Univ.)
- 13 Application of Nanotubes, Nanowires, and Graphene  
(Chair: S. Sato, AIST)
- 14 Power Devices and Materials  
(Chair: H. Tsuchida, CRIEPI)
- 15 Photovoltaic Materials and Devices  
(Chair: A. Masuda, AIST)

**Paper Deadline—May 11, 2012**

**Late News Paper Deadline—July 23, 2012**

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**IEEE Electron Devices Society**

Secretariat-SSDM 2012  
c/o Inter Group Corp.

TEL: +81-3-5549-6909

FAX: +81-3-5549-3201

E-mail: [ssdm\\_secretariat@intergroup.co.jp](mailto:ssdm_secretariat@intergroup.co.jp)

Web Site : <http://www.ssdm.jp>

#### Organizing Committee

- Chairperson  
K. Kyuma (Mitsubishi Electric Corp.)
- Vice-Chairperson  
T. Asano (Kyushu Univ.)

#### Steering Committee

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T. Oomori (Mitsubishi Electric Corp.)
- Vice-Chairperson  
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**SSDM**  
**2012**

## *Preliminary Announcement*

# 2012 International Conference on Solid State Devices and Materials (SSDM 2012)

**Date: September 25-27, 2012**

**Place: Kyoto International Conference Center, Japan**

The 2012 International Conference on Solid State Devices and Materials (SSDM2012) will be held from September 25, Tuesday, through September 27, Thursday, at the Kyoto International Conference Center, Japan.

This conference is one of the most important and prestigious international conferences held in Japan. The SSDM has provided a good opportunity to present and discuss key aspects of solid state devices and materials since it started in 1969. From the 1999 conference, program sub-committees have been established to further advance the SSDM conference activity. The conference has 10 sub-committees in Core Areas and 5 sub-committees in Strategic Areas, as shown below, which are continuously focused on pointing out the future directions in solid state device and material researches. In addition to the main conference program, one-day short course programs will precede the conference on Monday, September 24.

## *Papers will be solicited in the following areas (=Subcommittees) for SSDM2012*

### Core Areas

- I : Advanced LSI Processing & Materials Science
- II : Advanced Interconnect / Interconnect Materials and Characterization
- III : CMOS Devices / Device Physics
- IV : Advanced Memory Technology
- V : Advanced Circuits and Systems
- VI : Compound Semiconductor Electron Devices and Related Technologies
- VII : Photonic Devices and Optoelectronic Integration
- VIII : Advanced Material Synthesis and Crystal Growth Technology
- IX : Physics and Applications of Novel Functional Devices and Materials
- X : Organic Materials Science, Device Physics, and Applications

### Strategic Areas

- XI : Devices and Materials for Biology and Medicine
- XII : Spintronics Materials and Devices
- XIII : Application of Nanotubes, Nanowires, and Graphene
- XIV : Power Devices and Materials
- XV : Photovoltaic Materials and Devices

### ※CONFERENCE LANGUAGE

The official language of the conference is English.

## *IMPORTANT DATES*

First Announcement	December, 2011
Second Announcement	March, 2012
Deadline for Abstracts	May 11, 2012
Deadline for Late News Papers	July 23, 2012

## *CONFERENCE CHAIRS*

### *Organizing Committee Chair*

Kazuo Kyuma (Mitsubishi Electric Corporation)

### *Steering Committee Chair*

Tatsuo Oomori (Mitsubishi Electric Corporation)

### *Program Committee Chair*

Seiichi Miyazaki (Nagoya University)

## *FURTHER INFORMATION*

Those who are interested in receiving further information, including the call for papers, are requested to contact:  
Secretariat for SSDM 2012  
c/o Inter Group Corp.

Phone: +81-3-5549-6909 Fax: +81-3-5549-3201 E-mail: [ssdm\\_secretariat@intergroup.co.jp](mailto:ssdm_secretariat@intergroup.co.jp)

URL: <http://www.ssdm.jp>