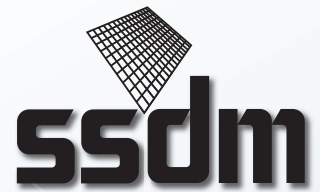


2017

INTERNATIONAL CONFERENCE ON



SOLID STATE DEVICES AND MATERIALS

Sep. 19-22, 2017
Sendai International Center
Sendai, Japan



Scope of Conference

Core Areas

- 1 **Advanced LSI Processing & Materials Science**
(Chair : O. Nakatsuka, Nagoya Univ.)
- 2 **Interconnect Technologies, MEMS, and Reliability**
(Chair : M. Fujino, Univ. of Tokyo)
- 3 **CMOS Devices / Device Physics**
(Chair : N. Sugii, Hitachi, Ltd.)
- 4 **Advanced Memory Technology**
(Chair : T. Sakamoto, NEC Corp.)
- 5 **Advanced Circuits and Systems**
(Chair : I. Akita, Toyohashi Univ. of Tech.)
- 6 **Compound Semiconductor Electron Devices & Related Technologies**
(Chair : T. Suzuki, JAIST)
- 7 **Photonic Devices and Related Technologies**
(Chair : H. Isshiki, Univ. of Electro-Communications)
- 8 **Advanced Material Synthesis and Crystal Growth Technology**
(Chair : T. Nagata, NIMS)
- 9 **Physics and Applications of Novel Functional Devices and Materials**
(Chair : T. Tanamoto, Toshiba Corp.)
- 10 **Organic Materials Science, Device Physics, Applications and Printed Technologies**
(Chair : T. Shimada, Hokkaido Univ.)

Strategic Areas

- 11 **Sensors and Materials for Biology, Chemistry and Medicine**
(Chair : T. Sakata, Univ. of Tokyo)
- 12 **Spintronics Materials and Devices**
(Chair : J. Nitta, Tohoku Univ.)
- 13 **Applications of Nanotubes, Nanowires, and Graphene and related 2D materials**
(Chair : K. Kawaguchi, Fujitsu Labs. Ltd.)
- 14 **Power Devices and Materials**
(Chair : D. Hisamoto, Hitachi, Ltd.)
- 15 **Photovoltaic Materials and Devices**
(Chair : K. Ohdaira, JAIST)

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Plenary Talks



Tetsuro Higashi
(Tokyo Electron Ltd., Japan)

The Semiconductor Industry; Changed and Unchanged



Pushkar Ranade
(Intel Corp., USA)

The Next Wave of Computing – A Semiconductor Perspective



Takashi Matsuoka
(Tohoku Univ., Japan)

Research on Nitride Semiconductors from the Dawn, through the Present, to the Future

Deadlines

Late News **July 21, 2017**

Early Registration **August 17, 2017**

Organizing Committee

Chair : H. Ohno (Tohoku Univ.)
Vice-Chair : A. Toriumi (Univ. of Tokyo)

Program Committee

Chair : K. Shiraishi (Nagoya Univ.)
Vice-Chairs : M. Koyama (Toshiba Corp.)
: J. Nitta (Tohoku Univ.)
: H. T. Lue (Macronix International Co., Ltd.)
: F. Boeuf (STMicroelectronics)

Steering Committee

Chair : T. Endoh (Tohoku Univ.)
Vice-Chair : T. Kondo (Univ. of Tokyo)

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Short Courses

Short Courses for young researchers and students, will be held on 19 September 2017, the first day of SSDM2017. All lectures will be given in English.

A. Artificial Intelligence (AI) for the Application of Solid State Devices and Materials

(Organizer: Kenji Shiraishi, Nagoya University)

B. Si-related technology

(Organizer: Masato Koyama, Toshiba Corporation)

Invited Speakers

Advanced LSI Processing & Materials Science (Area 1)

Sylvain Barraud (CEA-Leti, France)
Koji Kita (Univ. of Tokyo, Japan)
Takashi Kuroi (Nissin Ion Equipment Co., Ltd., Japan)
Stefan Müller (NaMLab-FMC, Germany)

Interconnect Technologies, MEMS, and Reliability (Area 2)

Eiji Higurashi (AIST/Univ. of Tokyo, Japan)
Matiar R Howlader (McMaster Univ., Canada)
Daiyu Kondo (Fujitsu Labs. Ltd., Japan) *Invited from ICEP2017
Kwang-Lung Lin (National Cheng Kung Univ., Taiwan)
Katsuyuki Sakuma (IBM T. J. Watson Research Center, USA)

CMOS Devices / Device Physics (Area 3)

Aryan Afzalian (TSMC Europe BV, Belgium)
Takahiro Mori (AIST, Japan)
Shibun Tsuda (Renesas Electronics Corp., Japan)
Chih-Chao Yang (National Nano Device Labs., Taiwan)

Advanced Memory Technology (Area 4)

Junghyuk Lee (Samsung Electronics Co., Ltd., Korea)
Michael Stopa (Nantero, Inc., USA)
Yuji Sutou (Tohoku Univ., Japan)
Masanao Yamaoka (Hitachi, Ltd., Japan)

Advanced Circuits and Systems (Area 5)

Suguru Kameda (Tohoku Univ., Japan)
Yoshio Mita (Univ. of Tokyo, Japan)
Yoshikazu Nitta (Sony Semiconductor Solutions Corp., Japan)
Zhiwei Zhang (Inst. of Automation, Chinese Academy of Sci., China)

Compound Semiconductor Electron Devices & Related Technologies (Area 6)

David F. Brown (HRL Labs., USA)
Srabanti Chowdhury (Univ. of California, Davis, USA)
Yoichi Kawano (Fujitsu Labs. Ltd., Japan)
Richard Reiner (Fraunhofer IAF, Germany)

Photonic Devices and Related Technologies (Area 7)

Luca Alloatti (ETH Zürich, Switzerland)
Jean Fonpeyrine (IBM Research GmbH, Zurich Research Laboratory, Switzerland)
Hideki Hirayama (RIKEN, Japan)
Tadashi Kawazoe (Univ. of Tokyo, Japan)

Advanced Material Synthesis and Crystal Growth Technology (Area 8)

Roman Engel-Herbert (Pennsylvania State Univ., USA)
Michael Heuken (AIXTRON SE, Germany)
Takashi Suemasu (Univ. of Tsukuba, Japan)
Kentaro Watanabe (Osaka Univ., Japan)

Physics and Applications of Novel Functional Devices and Materials (Area 9)

Selina La Barbera (CEA-Leti, France)
Kae Nemoto (National Inst. of Informatics, Japan)
Carlo Reita (CEA-Leti, France)
Peide Ye (Purdue Univ., USA)

Organic Materials Science, Device Physics, Applications and Printed Technologies (Area 10)

Nicolas Clement (NTT BRL, Japan)
Hideyuki Murata (JAIST, Japan)
Eugen Stulz (Univ. of Southampton, UK)
Shizuo Tokito (Yamagata Univ., Japan)

Sensors and Materials for Biology, Chemistry and Medicine (Area 11)

Mutsuko Hatano (Tokyo Tech, Japan)
Takanori Ichiki (Univ. of Tokyo, Japan)
Verellen Niels (IMEC, Belgium)
Yuh-Shyong Yang (National Chiao Tung Univ., Taiwan)

Spintronics Materials and Devices (Area 12)

Masakazu Matsubara (Tohoku Univ., Japan)
Yukiko K. Takahashi (NIMS, Japan)
Mingliang Tian (Chinese Academy of Sci., China)
Jacob Torrejon (CNRS/Thales, France)

Applications of Nanotubes, Nanowires, and Graphene and related 2D materials (Area 13)

Deji Akinwande (The Univ. of Texas at Austin, USA)
Po-Wen Chiu (National Tsing Hua Univ., Taiwan)
Anders Mikkelsen (Lund Univ., Sweden)
Maria Tchernycheva (CNRS, France)

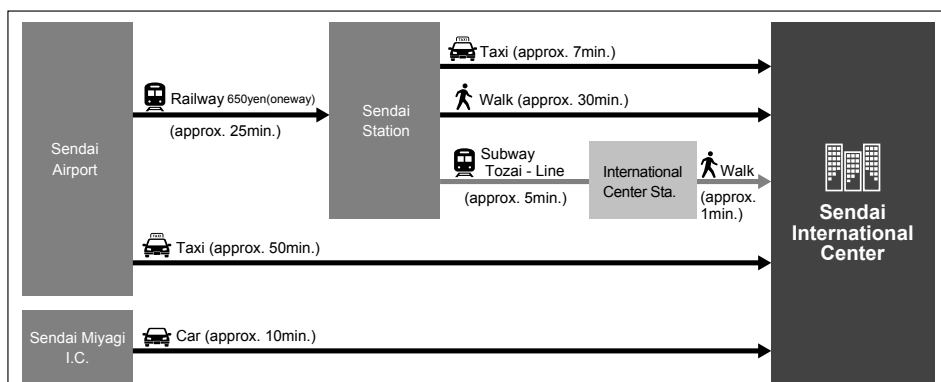
Power Devices and Materials (Area 14)

Gregg H. Jessen (Air Force Research Lab., USA)
Kuniyuki Kakushima (Tokyo Tech, Japan)
Tsubasa Matsumoto (Kanazawa Univ., Japan)
Mitsuru Sometani (AIST, Japan)

Photovoltaic Materials and Devices (Area 15)

Koichi Kakimoto (Kyushu Univ., Japan)
Takaya Kubo (Univ. of Tokyo, Japan)
Kikuo Makita (AIST, Japan)
Akira Yamada (Tokyo Tech, Japan)

Invited speakers may change



Further Information

For any questions or further information, please contact: Secretariat for SSDM2017

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