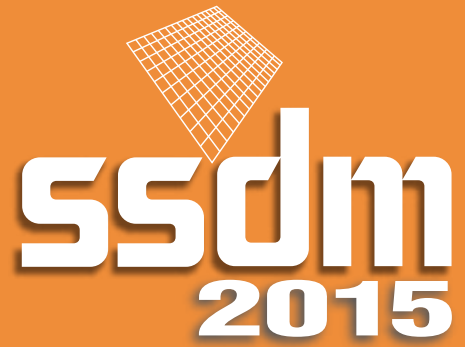


2015

INTERNATIONAL CONFERENCE ON

SOLID STATE DEVICES AND MATERIALS

Sep. 27-30, 2015
Sapporo Convention Center
Sapporo, Japan



ssdm 2015

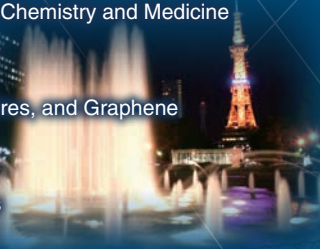
Scope of Conference

Core Areas

- 1 Advanced LSI Processing & Materials Science
(Chair : S. Migita, AIST)
- 2 Interconnect Technologies and 3D Integration / Sensor / MEMS Integration / Materials and Characterization
(Chair : H. Ishii, Toyohashi Univ. of Tech.)
- 3 CMOS Devices / Device Physics
(Chair : M. Masahara, AIST)
- 4 Advanced Memory Technology
(Chair : K. Hamada, Micron Memory Japan Inc.)
- 5 Advanced Circuits and Systems
(Chair : Y. Mita, Univ. of Tokyo)
- 6 Compound Semiconductor Electron Devices & Related Technologies
(Chair : N. Hara, Fujitsu Labs. Ltd.)
- 7 Photonic Devices and Related Technologies
(Chair : Y. Ishikawa, Univ. of Tokyo)
- 8 Advanced Material Synthesis and Crystal Growth Technology
(Chair : T. Suemasu, Univ. of Tsukuba)
- 9 Physics and Applications of Novel Functional Devices and Materials
(Chair : T. Machida, Univ. of Tokyo)
- 10 Organic Materials Science, Device Physics, and Applications
(Chair : K. Fujita, Kyushu Univ.)

Strategic Areas

- 11 Sensors and Materials for Biology, Chemistry and Medicine
(Chair : J. Ohta, NAIST)
- 12 Spintronics Materials and Devices
(Chair : Y. Suzuki, Osaka Univ.)
- 13 Applications of Nanotubes, Nanowires, and Graphene
(Chair : Y. Ohno, Nagoya Univ.)
- 14 Power Devices and Materials
(Chair : H. Umezawa, AIST)
- 15 Photovoltaic Materials and Devices
(Chair : M. Isomura, Tokai Univ.)



Please see reverse side for more information regarding Short Course, Invited Speakers, and Conference Venue.

Plenary Talks



Ryoji Chubachi
(AIST, Japan)

Building a Sustainable Society through Innovative Devices and Materials



Hiroshi Amano
(Nagoya Univ., Japan)

Beyond blue LED



Kang L. Wang
(UCLA, USA)

Low Power Electronics Beyond 5nm

Paper Deadlines

Regular **May 15, 2015**

Late News **July 21, 2015**

Organizing Committee

Chair : T. Fukui (Hokkaido Univ.)
Vice-Chair : T. Kanayama (AIST)

Steering Committee

Chair : S. Hara (Hokkaido Univ.)
Vice-Chair : M. Masahara (AIST)

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S. Sato (Fujitsu Labs. Ltd.)
E. Y. Chang (NCTU)

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Short Courses

Short Courses for young researchers and students, will be held on 27 September 2015, the first day of SSDM2015. All lectures will be given in English.

A. Trends and Challenges of Non-Volatile Memory Technologies in the Big-Data Era

(Organizer: Masumi Saitoh, Toshiba Corporation)

B. Fundamentals and Applications of Two-Dimensional Materials

(Organizer: Shintaro Sato, Fujitsu Laboratories Ltd.)

Invited Speakers

Advanced LSI Processing & Materials Science (Area 1)

C. Fenouillet-Béranger (CEA-LETI, France)
K. Usuda (Toshiba, Japan)
Y. Q. Wu (Huazhong Univ. of Sci. and Tech, China)
D. H. Zadeh (NTT Device Technology Labs., Japan)

Interconnect Technologies and 3D Integration / Sensor / MEMS Integration / Materials and Characterization (Area 2)

C. R. Kothandaraman (IBM, USA)
J. Mizuno (Waseda Univ., Japan)
K. Suganuma (Osaka Univ., Japan)
J. Terao (Kyoto Univ., Japan)

CMOS Devices / Device Physics (Area 3)

R. Huang (Peking Univ., China)
C.-H. Lin (IBM, USA)
T. Watanabe (Waseda Univ., Japan)
H. Wu (Purdue Univ., USA)

Advanced Memory Technology (Area 4)

J. F. Kang (Peking Univ., China)
G. Molas (CEA-LETI MINATEC, France)
K. Takeuchi (Chuo Univ., Japan)
I. A. Young (Intel, USA)

Advanced Circuits and Systems (Area 5)

K. Suu (ULVAC, Japan)
H. Tamukoh (Kyutech, Japan)
A. Tixier-Mitta (Univ. of Tokyo, Japan)

Compound Semiconductor Electron Devices & Related Technologies (Area 6)

X. B. Mei (Northrop Grumman, USA)
Y. Miyamoto (Tokyo Tech, Japan)
M. Tapajna (IEEE SAS, Slovakia)
H. Xing (Cornell Univ., USA)

Photonic Devices and Related Technologies (Area 7)

D. Marris-Morini (Univ. of Paris Sud, France)
W. Van Roy (IMEC, Belgium)
U. Schwarz (Freiburg Univ., Germany)
Y. Tanaka (PETRA, Japan)

Advanced Material Synthesis and Crystal Growth Technology (Area 8)

Y.-H. Chu (NCTU, Taiwan)
J. Müller (Fraunhofer IPMS-CNT, Germany)
T. Teraji (NIMS, Japan)
S. Zaima (Nagoya Univ., Japan)

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

A. Fujiwara (NTT BRL, Japan)
M. Jung (Univ. of Basel, Switzerland)
A. J. Shields (Toshiba Research Europe, UK)
Y. Zhang (Fudan Univ., China)

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

S. Ekgasit (Chulalongkorn Univ., Thailand)
M. Hiramoto (IMS, Japan)
C. A. Nijhuis (NUS, Singapore)
Y. Tajitsu (Kansai Univ., Japan)

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

K. Kurabayashi (Umich, USA)
Y. Takamura (JAIST, Japan)
M. Taniguchi (Osaka Univ., Japan)
P.-K. Wei (Academia Sinica, Taiwan)

Spintronics Materials and Devices (Area 12)

Y. Ashizawa (Nihon Univ., Japan)
S. Fukami (Tohoku Univ., Japan)
B. T. Jonker (Naval Research Lab., USA)
Q.-K. Xue (Tsinghua Univ., China)

Applications of Nanotubes, Nanowires, and Graphene (Area 13)

L. Geelhaar (Paul Drude Inst., Germany)
B. Özyilmaz (NUS, Singapore)
H. Riel (IBM, Switzerland)
K. Tsukagoshi (NIMS, Japan)

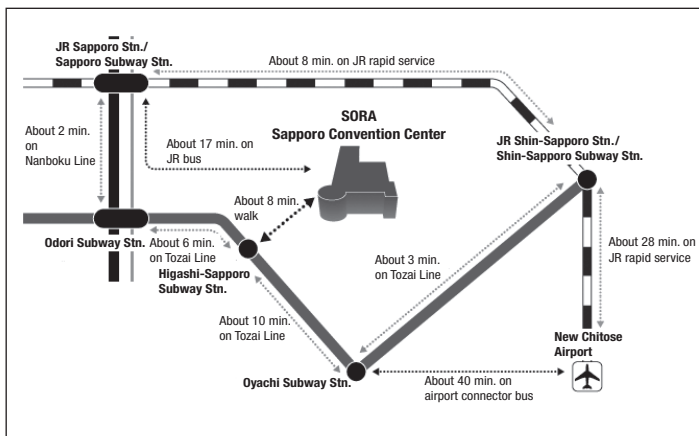
Power Devices and Materials (Area 14)

P. Friedrichs (Infineon Technologies, Germany)
M. Hatano (Tokyo Tech, Japan)
I. C. Kizilyalli (Avogy, USA)
A. Leleis (Army Research Lab., USA)

Photovoltaic Materials and Devices (Area 15)

J. Haschke (Helmholtz-Zentrum Berlin, Germany)
W.-F. Su (NTU, Taiwan)
H. Araki (National Institute of Technology, Nagaoka College, Japan)
S. Mizuno (Toyota Central R&D Labs, Japan)

Invited speakers may change



Further Information

For any questions or further information, please contact: Secretariat for SSDM2015
c/o Kinki Nippon Tourist Co., Ltd. Global Business Management Branch
Phone: +81-3-6891-9600 E-mail: secretariat@ssdm.jp

