2019 INTERNATIONAL CONFERENCE ON
SOLID STATE DEVICES AND MATERIALS

Sep. 2-5, 2019
Nagoya University

Scope of Conference

1. Advanced CMOS: Material Fundamentals, Process Science and Device Physics (Chair: H. Morioka, Socionext Inc.)
2. Advanced / Emerging Memories and New Applications (Chair: K. Yamamoto, Toshiba Memory Corp.)
3. Interconnect / 3D Integrations / MEMS (Chair: M. B. Takeyama, Kitami Inst. of Tech.)
5. Photonics: Devices, Integration and Related Technology (Chair: N. Nishiyama, Tokyo Tech)
6. Photovoltaic / Energy Harvesting / Battery-related Technology (Chair: M. Ikegami, Toin Univ. of Yokohama)
7. Organic / Molecular / Bio-electronics (Chair: T. Tanaka, Tohoku Univ.)
8. Low Dimensional Devices and Materials (Chair: K. Nagashio, Univ. of Tokyo)
10. Thin Film Electronics: Oxide, Non-single Crystalline and Novel Process (Chair: S. Higashi, Hiroshima Univ.)
11. Advanced Materials Synthesis, Crystal Growth and Characterization (Chair: A. Kikuchi, Sophia Univ.)

Special: Advanced Circuits/Systems Interacting with Innovative Devices & Materials (Chair: R. Kuroda, Tohoku Univ.)

Organizing Committee
Chair: H. Amano (Nagoya Univ.)
Vice-Chair: A. Kurobe (Toshiba Corp.)

Steering Committee
Chair: J. Suda (Nagoya Univ.)
Vice-Chair: H. Mizuta (JAIST)

Program Committee
Chair: H. Fujioka (Univ. of Tokyo)
Vice-Chairs: K. Uchida (Univ. of Tokyo)
F. Boeuf (STMicroelectronics)

Plenary Session

Naga Chandrasekaran
(Micron Technology, Inc.)
Data is the new currency:
Memory Technology Enabling
and Accelerating a New Era of
Economic Opportunity

Dethard Peters
(Infinion Technologies AG)
SIC Devices for highly
efficient power conversion

Kazuo Yano
(Hitachi, Ltd.)
AI, Human and Happiness

Susumu Noda
(Kyoto Univ.)
Photonic Crystals for
Society 5.0

Paper Deadlines
Regular: May 8, 2019
Late News: July 2, 2019

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Short Courses

Short Courses for young researchers and students, will be held on Monday September 2nd, the first day of SSDM2019. All lectures will be given in English.

A. Essential technologies toward next generation computing
(Organizer: Masaharu Kobayashi, The University of Tokyo)

B. Semiconductor Devices and Materials for Future Mobility
(Organizer:Tetsu Kachi, Nagoya University)

Additional events

A session on advanced plasma processing is scheduled on Monday September 2nd.

Laboratory tours of Center for Low-temperature Plasma Science (cPlaS) and CIRFE Transformative Electronics Facilities (C-TEFs), Nagoya University on Monday September 2nd.

Further Information

For any questions or further information, please contact: Secretariat for SSDM2019
c/o KNT-CT Global Travel CO., LTD. Global MICE Branch
Phone:+81-3-6891-9600, E-mail:secretariat@ssdm.jp

Invited Speakers

Advanced CMOS: Material Fundamentals, Process Science and Device Physics (Area 1)
Shinji Migita (AIST)
Toshihiko Miyashita (Applied Materials, Inc.)
Shuichi Murakami (Tokyo Tech)
Rossella Ranica (STMicroelectronics)
Anne Vandooren (IMEC)

Power Devices / High-speed Devices, and Materials (Area 4)
Kevin J. Chen (Hong Kong Univ. of Sci. and Tech.)
Fumimasa Horikiri (SCIICS COMPANY LTD.)
Katsuhiro Kutsuki (Toyota Central R&D Labs., Inc.)
Yuichi Minoura (Fujitsu Labs. Ltd.)
Takashi Shinohe (FLOSIA Inc.)
Norio Tokuda (Kanazawa Univ./AIST)

Photovoltaic / Energy Harvesting / Battery-related Technology (Area 6)
Jihwan An (Seoul National Univ. of Sci. and Tech.)
Kazuma Aoyama (Univ. of Tokyo)
Syed Ghufuran Hashmi (Asit Univ.)
Cham Thi Trinh (Heinhold-Zentrum Berlin)

Organic / Molecular / Bio-electronics (Area 7)
Toshihiro Okamoto (Univ. of Tokyo)
Itaru Osaka (Hiroshima Univ.)
Minoru Sasaki (Toyota Technological Inst.)
Chia-Wei Sun (National Chiao Tung Univ.)
Ichirou Yamashita (Osaka Univ.)

Low Dimensional Devices and Materials (Area 8)
Jonathan Bird (Univ. at Buffalo/The State Univ. of New York)
Yang Chai (The Hong Kong Polytechnic Univ.)
Michael A. Filler (Georgia Inst. of Tech.)
Lain-Jong Li (TSMIC)
Kenichi Nishi (QD Laser, Inc.)
Hongyi Xu (Peking Univ.)

Novel Functional / Quantum / Spintron Devices and Materials (Area 9)
Daichi Chiba (Univ. of Tokyo)
Shunsuke Fukami (Tohoku Univ.)
Takumi Mikawa (Panasonic Semiconductor Solutions Co., Ltd.)

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Invited speakers may change