
Final Announcement and Call for Papers

International Conference on Silicon Carbide and Related Materials 2013

Sept. 29 – Oct. 4, 2013



**Phoenix Seagaia Resort
Miyazaki, Japan**

<http://icscrm2013.org/>

Abstract Deadline: May 13, 2013

Sponsored by

The Japan Society of Applied Physics

Scope

The aim of the conference is to discuss recent advances in theoretical and experimental investigations of crystal growth, characterization and control of material properties, as well as other basic research issues concerning wide bandgap semiconductors such as silicon carbide (SiC), III-nitrides, diamond and related materials like graphene.

New research results relevant to wafer production processes, device fabrication technologies and device applications will also be presented and discussed. The objective is to promote the commercialization and production of advanced devices and systems for low on-resistance/high voltage switching, high frequency/high power amplification and high temperature operation.

The conference also serves as an international forum for the exchange of ideas on recent scientific and technical issues among researchers and engineers in industrial, academic and public sectors.

Topics

- Fundamentals (Theoretical and Experimental)
- Bulk and Epitaxial Growth
- Material Characterization
- Surfaces and Interfaces
- Device Fabrication Processes
- Devices (Power Switching, RF Power, High Temperature



- and Radiation-Resistant Devices, etc.)
- Device Physics (Measurement, Modeling, Simulation, and Reliability)
- Packaging, Modular, and Circuit Technology
- System Applications

for wide bandgap semiconductors such as SiC, III-nitrides, diamond and related materials like graphene.

Location

The Phoenix Seagaia Resort, containing the Convention Center and the Sheraton Grande Ocean Resort Hotel, is located in the northeastern part of the city of Miyazaki in Kyushu, on the Hitotsuba Coast facing the Pacific Ocean. The resort is Japan's premier international destination resort and was made famous by the Kyushu-Okinawa G8 Summit in 2000, at which the Miyazaki Meeting of Foreign Ministers was held in the Summit Hall at the Convention Center.

Miyazaki is full of places of scenic beauty and historic interest and is connected with the Japanese myths of “Tenson Kōrin,” which refers to the descent from heaven of the sun goddess's grandson and their creation of Japan.

The Phoenix Seagaia Resort is accessible within 30 minutes by taxi or bus from Miyazaki Airport, which is directly connected to Japan's major international airports, Incheon International Airport in Korea and Taoyuan International Airport in Taiwan.





Important Dates

- May 13, 2013: Deadline for regular abstract submission
- July 16, 2013: Notification of acceptance of regular papers
- Aug. 16, 2013: Deadline for late news abstract submission
- Aug. 30, 2013: Notification of acceptance of late news papers
- Sept. 20, 2013: Deadline for proceedings manuscripts of regular/late news papers

Invited Speakers

Plenary Talks (Partial List)

Kazuo Kyuma (Mitsubishi Electric Corp., Japan)

"Strategic Energy Policy for a Sustainable Society:
Expectations for SiC Power Devices"

Invited Talks (Partial List)

H. Daikoku (Toyota Motor, Japan)

H. Tsuchida (CRIEPI, Japan)

N.T. Son (Linköping Univ., Sweden)

H. Yoshioka (Kyoto Univ., Japan)

A.J. Lelis (U.S. Army Res. Lab., USA)

T. Nakamura (ROHM, Japan)

L. Cheng (Cree, USA)

M. Kitabatake (FUPET, Japan)

S. Shikata (AIST, Japan)

... and others to be determined later.

Plenary/Invited speaker list will be updated on the ICSCRM 2013 web site.

Overview of Schedule

Date	Morning 1	Morning 2	Afternoon 1	Afternoon 2	Evening
Sun., Sep. 29					Welcome Reception
Mon., Sep. 30	Opening and Plenary	Oral	Poster	Oral	Industrial Session
Tue., Oct. 1	Oral	Oral	Poster	Oral	
Wed., Oct. 2	Oral	Oral	Poster	Oral	
Thu., Oct. 3	Oral	Oral	Oral	Oral	Banquet
Fri., Oct. 4	Oral	Oral	Plenary and Closing		

Industrial Session

Commercially available technologies for materials, devices and fabrication/characterization equipment, as well as recent market research and other industrial information will be presented in the Industrial Session on Monday evening, September 30.

Notes to Authors and Participants

The official language of the conference is English, which will be used for all presentations and printed materials. Authors are expected to present their papers in person at the conference. If authors cannot attend or wish to withdraw their paper, the technical program chair must be notified well in advance at the following e-mail address: prog-chair@icscrm2013.org.

It should be noted that photo, audio and video recordings are prohibited during the oral/poster session in the conference.

Submission of Abstracts

Abstracts should be submitted to ICSCRM 2013 via the on-line submission system. The abstract should be written in English, with a maximum length of 2 pages, including figures, photographs, captions and references. It should be headed by the title, author(s), affiliation(s), and a contact address. For detailed information on the abstract format and submission procedure, please visit the submission page at the conference web site, which will be opened in April 2013. The deadline for abstract submission is May 13, 2013.

Please note that the abstracts will be circulated to the Technical Program Committee members for reviewing, and accepted abstracts will be distributed to the participants at the conference on September 29.

Late News Papers

A limited number of papers that describe particularly important results obtained after the regular deadline may be accepted as Late News Papers. Late News abstracts should be prepared in the same way as for regular papers. The deadline for submitting these abstracts is August 16, 2013.



Proceedings

Submission

The conference proceedings will be published in *Material Science Forum* by Trans Tech Publications Inc. (<http://www.ttp.ch/>). The authors of accepted papers will be asked to submit their manuscripts before the conference to ensure a smooth refereeing procedure.

The copyright transfer agreement (and offprint order form) properly completed and signed must be sent together with the manuscript.

Preparation

Manuscripts have to be prepared camera ready with a maximum length of 4 pages for contributed papers, and 6 pages for invited papers. The manuscript template, copyright form, and offprint order form with detailed instructions may be downloaded from the conference web site for your convenience.

Registration

Fees and Registration

All participants need to register for the conference through the conference web site. The registration fees are as follows:

	Thru, July 31	After July 31
Regular	¥ 70,000	¥ 80,000
Student	¥ 40,000	¥ 45,000

The registration fee includes admission to all technical sessions, lunch, banquet and a copy of the conference proceedings. However, a copy of the proceedings is not included in the student fee. Additional copies of the conference proceedings may be purchased.

Method of Registration and Payment

Registration and payment are handled by Event & Convention House, Inc., Japan, the official conference assistant. Registration can be done online at the conference web site from April 15, 2013. All payments should be made in Japanese yen (¥) by credit card.

The following credit cards are acceptable: American



Express, Diners Club, JCB, MasterCard and VISA. Since payment by credit card will be handled by Event & Convention House, Inc., charges will be shown on your credit card statement as "KNT EVENT & CONVENTION". If you have any questions about registration or payment, please contact Event & Convention House, Inc. (icscrm2013reg@ech.co.jp).

Exhibition

A technical exhibition will be held during the conference. Companies that provide materials, devices, equipment and services for testing, characterization, development and production of SiC and wide-bandgap materials are encouraged to exhibit at the conference.

Further information can be found at the conference web site. For further details regarding the exhibition, please contact:

Manabu Arai

Technology Development HQ

New Japan Radio Co., Ltd.

e-mail: exhibit@icscrm2013.org

Social Events

Welcome Reception

A welcome reception, free of charge, will be held on Sunday evening, September 29 in the Summit Hall on the fourth floor of the Phoenix Seagaia Resort Convention Center. This is a good opportunity to obtain conference materials, as well as to get acquainted with other participants.

Conference Banquet

A conference banquet will be held on Thursday evening, October 3 in the Shosenkyu Green Garden in the Sheraton Grande Ocean Resort Hotel. The fee for the conference banquet is included in the registration fee. An advanced reservation is not necessary.

Accompanying Persons Program

Three accompanying persons programs, including both sightseeing and other activities, are planned during the conference. An advanced reservation is necessary. Details will be announced at the conference web site.

General Information

Accommodations

A block of rooms in the Sheraton Grande Ocean Resort Hotel have been reserved at a special conference rate from the nights of September 27 to October 7. The innovative prism design that gives the exterior its remarkable appearance also provides all 743 spacious and graceful rooms with a magnificent view of the Pacific Ocean. Hotel reservations can be made at the conference web site. The rates below are per room, per night, including service charge and consumption tax. Breakfast is not included. Hotel reservations will be made on a first-come, first-served basis. The special room rates will be available until August 30, or until all the reserved rooms are booked.



For the nights of September 27 to October 7, except September 28 and October 5:

Ocean Superior Twin (per room) ¥ 10,500/night

Grande Floor (Twin) (per room) ¥ 13,650/night

Ocean Executive Double (per room) ¥ 13,650/night

For the nights of September 28 and October 5:

Ocean Superior Twin (per room) ¥ 13,650/night

Grande Floor (Twin) (per room) ¥ 16,800/night

Ocean Executive Double (per room) ¥ 16,800/night

The Ocean Superior Twin and the Grande Floor (Twin) can accommodate a maximum of three guests. A breakfast-included plan is also available.

Further information about hotels, including ones in the Phoenix Seagaia Resort and Miyazaki, will be given at the conference web site.

Cancellation Policy

Registration Fee

For cancellations received before July 31, 80% of the registration fee will be refunded. From July 31 to September 16, 50% of the registration fee will be refunded. After September 16, no refunds can be made.

Hotel Reservation

The procedure for canceling a hotel reservation will be explained in detail at the conference web site.

Access to Venue

Participants from overseas can most easily reach Miyazaki by flying to Miyazaki Airport (KMI) from Japan's major international airports such as Tokyo (Haneda), Nagoya, Osaka, and Fukuoka. Incheon International Airport in Korea and Taoyuan International Airport in Taiwan also have direct flights to Miyazaki Airport.

From Miyazaki Airport, a free shuttle bus provided by ICSCRM 2013 is very convenient (recommended). A limited number of city buses are available (32 minutes from the airport and ¥830) only on weekends. It takes 20 minutes by taxi (approximately ¥4,500).

Miyazaki station is about 10 minutes from Miyazaki Airport by JR train. From Miyazaki station, city bus lines 16 or 18-1 are available every day (25 minutes and ¥500). It takes 15 minutes by taxi (approximately ¥2,500). The bus schedule, including the free shuttle bus, will be posted at the conference web site.

Passport and Visa

All overseas visitors entering Japan must have a valid passport. Participants who need a visa to enter Japan should obtain one from the nearest Japanese Embassy or Consulate before departing for Japan. If you require assistance, please contact: Event & Convention House, Inc., Japan, the official conference assistant (icscrm2013reg@ech.co.jp).



Official Web Site

For further details on Miyazaki and ICSCRM 2013, you are encouraged to visit the conference web site at:

<http://icscrm2013.org/>

Official Conference Assistant

Event & Convention House, Inc., Japan has been appointed as the official conference assistant.

Event & Convention House, Inc.

Shuwa-Okachimachi Bld. 8F

4-27-5 Taito, Taito-ku, Tokyo 110-0016, JAPAN

Phone: +81-3-3831-2601

Fax: +81-3-5807-3019

E-mail: icscrm2013reg@ech.co.jp

Further Information

For the latest information, please visit the conference web site or contact:

Takeshi Ohshima

Secretary of Executive Committee, ICSCRM 2013

Japan Atomic Energy Agency (JAEA)

1233 Watanuki, Takasaki, Gunma 370-1292, JAPAN

Phone: +81-27-346-9320

Fax: +81-27-346-9687

E-mail: secretary@icscrm2013.org

International Steering Committee

P. Bergman (Linköping Univ., Sweden)

D. Chaussende (Grenoble INP-CNRS, France)

R. P. Devaty (Univ. of Pittsburgh, USA)

P. Friedrichs (Infineon, Germany)

H. Itoh (JAEA, Japan)

H. J. Kim (Seoul National Univ., Korea)

T. Kimoto (Kyoto Univ., Japan)

M. Krieger (Univ. of Erlangen-Nürnberg, Germany)

P. G. Neudeck (NASA, USA)

R. Nipoti (CNR-IMM, Italy)

H. Okumura (AIST, Japan)
J. Palmour (Cree, USA)
R. Stahlbush (Naval Research Lab., USA)

Panel Members

C. H. Carter (Cree., USA)
W. J. Choyke (Univ. of Pittsburgh, USA)
E. Janzen (Linköping Univ., Sweden)
R. Madar (Grenoble INP-CNRS, France)
H. Matsunami (Kyoto Univ., Japan)
G. Pensl (Univ. of Erlangen-Nürnberg, Germany)
D. Stephani (Univ. of Erlangen-Nürnberg, Germany)
S. Yoshida (AIST, Japan)

ICSCRM 2013 Committees

Organizing Committee

H. Okumura (AIST, Japan), Chair
H. Harima (KIT, Japan), Co-chair
H. Itoh (JAEA, Japan)
T. Kimoto (Kyoto Univ., Japan)
M. Yoshimoto (KIT, Japan)
A. Suzuki (Ritsumeikan Univ., Japan)
M. Hashimoto (Nippon Steel & Sumitomo Metal, Japan)
K. Tsukamoto (Showa Denko, Japan)
K. Kyuma (Mitsubishi Electric, Japan)
N. Eguchi (Fuji Electric, Japan)
S. Saito (Toshiba, Japan)
S. Azuhata (Hitachi, Japan)
H. Takasu (ROHM, Japan)
K. Hamada (Toyota Motor, Japan)
K. Ookura (DENSO, Japan)
S. Akita (CRIEPI, Japan)
H. J. Kim (Seoul National Univ., Korea)

Advisory Committee

H. Matsunami (Kyoto Univ., Japan), Chair
S. Yoshida (AIST, Japan), Vice-chair
M. Tajima (JAXA, Japan)
T. Nakata (SIC Semicon, Japan)
S. Nakashima (AIST, Japan)

Sponsor Committee

A. Suzuki (Ritsumeikan Univ., Japan), Chair
T. Fuyuki (NAIST, Japan), Vice-chair
M. Imaizumi (Mitsubishi Electric, Japan)
Y. Mikamura (Sumitomo Electric Industries, Japan)
T. Nakamura (ROHM, Japan)
H. Nagasawa (HOYA, Japan)
K. Mochizuki (Hitachi, Japan)
T. Araki (Ritsumeikan Univ., Japan)
B. M. Park (Samsung Corning Precision Materials, Korea)
M.-C. Chun (RIST, Korea)

Executive Committee

H. Itoh (JAEA, Japan), Chair
H. Tsuchida (CRIEPI, Japan), Vice-chair
T. Ohshima (JAEA, Japan)
K. Kojima (AIST, Japan)
H. Yano (NAIST, Japan)
M. Arai (New Japan Radio, Japan)
Y. Hijikata (Saitama Univ., Japan)
K. Nishikawa (Toyota Central R&D Labs., Japan)
J. Suda (Kyoto Univ., Japan)
S. Tanimoto (Nissan Motor, Japan)
W. J. Lee (Dong-Eui Univ., Korea)
W. Bahng (KERI, Korea)
M. Kitabatake (Panasonic, Japan)
T. Fujimoto (Nippon Steel & Sumitomo Metal, Japan)
Y. Yonezawa (Fuji Electric, Japan)
O. Eryu (NITech, Japan)
T. Ujihara (Nagoya Univ., Japan)
K. Tsuruta (DENSO, Japan)
N. K. Kim (KERI, Korea)
S. Ha (LG Innotek, Korea)
K. Kakimoto (Kyushu Univ., Japan)
Y. Kangawa (Kyushu Univ., Japan)
S. Nakano (Kyushu Univ., Japan)
K. Yoshino (Univ. of Miyazaki, Japan)
A. Fukuyama (Univ. of Miyazaki, Japan)
K. Nishioka (Univ. of Miyazaki, Japan)

H. Suzuki (Univ. of Miyazaki, Japan)

Technical Program Committee

T. Kimoto (Kyoto Univ., Japan), Chair

N. Ohtani (Kwansei Gakuin Univ., Japan), Vice-chair

T. Shinohe (Toshiba, Japan), Vice-chair

K. Kakimoto (Kyushu Univ., Japan)

A. Powell (Cree, USA)

P. Wellmann (Univ. of Erlangen-Nürnberg, Germany)

H. Tsuchida (CRIEPI, Japan)

A. Burk (Cree, USA)

G. Ferro (Univ. Claude Bernard Lyon I, France)

A. Henry (Linköping Univ., Sweden)

K. Kojima (AIST, Japan)

J. Suda (Kyoto Univ., Japan)

P. Bergman (Linköping Univ., Sweden)

M. Dudley (Stony Brook Univ., USA)

A. Gali (Budapest Univ. of Tech. and Economics, Hungary)

M. Kato (NITech, Japan)

M. Krieger (Univ. of Erlangen-Nürnberg, Germany)

R. Stahlbush (Naval Research Lab., USA)

K. Fukuda (AIST, Japan)

P. Godignon (IMB-CNM, Spain)

H.J. Kim (Seoul National Univ., Korea)

F. Roccaforte (CNR-IMM, Italy)

A. Schöner (Ascatron, Sweden)

H. Yano (NAIST, Japan)

A. Agarwal (Cree, USA)

M. Domeij (Fairchild Semiconductor, Sweden)

P. Friedrichs (Infineon, Germany)

T. Nakamura (ROHM, Japan)

S. Tanimoto (Nissan Motor, Japan)

Y. Yonezawa (Fuji Electric, Japan)

K. Ueno (Fuji Electric, Japan)

T.P. Chow (Rensselaer Polytechnic Inst., USA)

T. Seyller (Technical Univ. Chemnitz, Germany)

S. Tanaka (Kyushu Univ., Japan)

Publishing Committee

M. Yoshimoto (KIT, Japan), Chair

H. Watanabe (Osaka Univ., Japan), Vice-chair
T. Hatayama (NAIST, Japan)
H. Matsuura (Osaka Electro-Communi. Univ., Japan)
T. Funaki (Osaka Univ., Japan)
Y. Sano (Osaka Univ., Japan)

Sponsor and Financial Support

ICSCRM 2013 is sponsored by

The Japan Society of Applied Physics,

cosponsored by

The Research Institute for Applied Sciences,

and financially supported by

The International Exchange Program, National Institute of Information and Communications Technology.

Tutorial Day

On Sunday, September 29, a Tutorial Day will be organized specifically, but not exclusively, for young researchers (PhD students and Postdocs) as a satellite event of ICSCRM 2013. The main objective of the Tutorial Day is to introduce the important concepts and hot topics to be discussed during the conference. This includes materials, characterization, devices, current issues and techniques. Lectures will be given by five invited speakers, all well recognized in their respective field, and will be easy to follow for young researchers with different backgrounds and fields of activity.

Participants need to register for the Tutorial Day through the conference web site. The registration fee will be ¥6,000 which includes participation, lunch, coffee breaks and a booklet containing all the presentations. Further details will be announced at the conference web site.

This Tutorial Day is supported by NetFISiC (ITN Marie Curie action, n°264613) – Training Network on Functional Interfaces for SiC (www.netfisic.eu), the European Commission, and the Professional Group of Advanced Power Semiconductors within the Japan Society of Applied Physics.