

# Call for Paper

## 8th International WorkShop on New Group IV Semiconductor Nanoelectronics

### and JSPS Core-to-Core Program Joint Seminar "Atomically Controlled Processing for Ultralarge Scale Integration"

Jan. 29(Thu.) - 30(Fri.), 2015

<http://www.murota.riec.tohoku.ac.jp/EI4GroupIV-WS2015/>

Laboratory for Nanoelectronics and Spintronics  
Research Institute of Electrical Communication  
Tohoku University, SENDAI, JAPAN

The 8th International Workshop on New Group IV Semiconductor Nanoelectronics will be held in Laboratory for Nanoelectronics and Spintronics, Research Institute of Electrical Communication, Tohoku University, Sendai, Japan, on January 29-30, 2015. This workshop will focus on new group IV semiconductor nanoelectronics.

#### SCOPE

- Theoretical and Experimental Aspects on Homo- and Heteroepitaxial Growth
- Growth Mechanisms of Molecular Beam Epitaxy and Chemical Vapor Deposition
- Formation and Properties of Self-Organized/Quantum-Confined Structures
- Novel Growth Techniques
- Electronic and Crystallographic Structures of Surfaces and Interfaces
- Si-Ge and Si-Ge-C and Other Group IV Materials
- Silicides/Si(Ge, C) Heterostructures
- Oxides and Nitrides/Si(Ge, C) Heterostructures
- Electronic Device Applications of Si/Ge(C) Systems
- Optical Device Applications of Si/Ge(C) Systems
- Si-Based Light Emission and Detection
- Relaxed Buffers, Compliant Substrates
- Doping in Group IV Systems
- Device Technology for Si-Based Group IV Systems

#### SUBMISSION OF ABSTRACTS

**Submission Deadline : Jan. 10, 2015**

**PDF or MS Word file of two-page abstract** (one-page main text and one-page figures), written in English on white bond paper (A4 size; 2.5cm margin on four sides), should be submitted to the Secretariat at the CORRESPONDENCE address. All the accepted abstracts will be expected to be opened on the workshop web site. The abstract should be headed by the title, author(s), affiliation(s), address, telephone number, fax number and e-mail address, and clearly describe the originality and new contributions of the work. The title, author(s), affiliation(s), address, telephone number, fax

number and e-mail address should be also sent by E-mail to

**EI4GroupIV@riec.tohoku.ac.jp**

Papers to be presented at the workshop will be selected by the Program Committee based on the submitted abstracts. The notice of acceptance will be e-mailed to the first author or corresponding author by Jan. 12, 2015.

#### COMMITTEE

##### INTERNATIONAL ADVISORY COMMITTEE

M. Caymax (imec, Belgium)  
S. Chiussi (Univ. Vigo, Spain)  
J. Derrien (Aix-Marseille Univ., France)  
J. L. Hoyt (MIT, USA)  
E. A. Fitzgerald (MIT, USA)  
E. Kasper (Univ. Stuttgart, Germany)  
J. Murota (Tohoku Univ., Japan)  
J. C. Sturm (Princeton Univ., USA)  
V. Le Thanh (CINaM-CNRS, France)  
B. Tillack (IHP & Tech. Inst. Berlin, Germany)  
S. Zaima (Nagoya Univ., Japan)

##### ORGANIZING COMMITTEE

M. Niwano (Chair, Tohoku Univ.)  
J. Murota (Vice-Chair, Tohoku Univ.)  
S. Sato (Tohoku Univ.)  
T. Okumura (Tokyo Metropolitan Univ.)  
M. Suemitsu (Tohoku Univ.)  
M. Sakuraba (Tohoku Univ.)

##### PROGRAM COMMITTEE

J. Murota (Chair, Tohoku Univ.)  
S. Zaima (Co-Chair, Nagoya Univ.)  
S. Takagi (Univ. Tokyo)  
S. Miyazaki (Nagoya Univ.)  
K. Washio (Tohoku Univ.)  
Y. Kunii (Hitachi Kokusai Electric)  
J. Sakai (Canon Anelva)  
A. Toriumi (Univ. Tokyo)  
T. Tsuchiya (Shimane Univ.)  
M. Miyao (Kyushu Univ.)  
T. Ito (Osaka Univ.)

#### REGISTRATION

The registration desk will be open tentatively for  
09:00 - 17:00 on Monday, Jan. 29, 2015,  
09:00 - 17:00 on Tuesday, Jan. 30, 2015.

Your completed registration form should be sent to Secretariat (e-mail or fax) for advanced registration. **A banquet will be held at 18:00-20:00 on Thursday, Jan. 29, 2015 at Hotel Bel Air Sendai.** Payment for banquet must be made in Japanese yen by cash at registration desk or banquet site. (Credit cards, personal checks and bank checks are NOT ACCEPTABLE.)

Registration Fee	¥0-
Banquet Fee	(to be determined)

#### CORRESPONDENCE

Secretariat of International WorkShop on New Group IV Semiconductor Nanoelectronics,  
Research Institute of Electrical Communication,  
Tohoku University  
2-1-1, Katahira, Aoba-ku, Sendai, 980-8577, Japan  
Tel: +81-22-217-5548, Fax: +81-22-217-5551  
E-mail: **EI4GroupIV@riec.tohoku.ac.jp**