SIMC-XIII-13th SemiSECOND CIRCULAR AND CALL FOR PAPERS

2004
Conducting and

Insulating
Materials Conference
September 20-25, 2004
Beijing, China



Sponsored by





IEEE Electron Devices Society
Chinese Academy of Sciences
National Natural Science Foundation of China

Organized by



Institute of Semiconductors, Chinese Academy of Sciences

http://simc.semi.ac.cn:6666/

Introduction

The 13th Semi-conducting and Insulating Materials Conference (SIMC-XIII-2004) will be held during September 20- 25, 2004 in Beijing, China. Beijing is a city of contrast. On one hand, it's fast becoming a modern city of first-class hotels, business centers, shopping malls and wide avenues. On the other hand, there are Hutongs, ageless communities of narrow streets that have changed little over the past seven hundred years.

Initiated in 1980 in Nottingham (UK) and held every other year, the SIMC aims to bring together researchers and engineers from academic sphere and industry for efficient scientific exchange on the topics related to the fundamental materials problems of compound semiconductors, which are widely used for electronic and optoelectronic devices. It has been a forum for informal and friendly discussions on materials issues important for device applications.

Topics of the Conference

A tentative list of the topics that will be addressed during the conference is:

- Semi-insulating III-V compounds
- Non-Stoichiometric III-V compunds
- Narrow band gap nitrides such as GaAsN and GaAsPN
- Wide gap materials such as GaN, AlGaN, AlGaInN, SiC and ZnO
- Nanomaterials and technologies
- Novel materials and
- All kinds of devices emerging from these materials

The conference program will include invited, oral and poster presentations.

Invited Lectures

• Andreas Waag, Technical University of Braunschweig, Germany

MOVPE of ZnMgO-ZnO Quantum Wells and Nanorods: From Optoelectronics to Ferromagntism

• Bo Xu, Institute of Semiconductors, Chinese Academy of Sciences, China

Controlled Growth of III-V Compound Semiconductor Nano-Structures and Their Application in Quantum-devices

• D. Goldberg, National Institute for Materials Science, Japan

Structures of BN Related Materials

• F. Danie Auret, University of Pretoria, South Africa

Characterization of As-grown and Proton-bombarded Single Crystal ZnO by Deep Level Transient Spectroscopy

• Gottfried Döhler, University of Erlangen, Germany

Photoionization Spectroscopy on Low Temperature Grown GaAs or Terahertz photomixer Based on Thin LT-GaAs and ErAs Layer

Henning Riechert, Infineon Technologies AG, Germany

Applications of InGaAsN in VECSELs

Hideo Ohno, Tohoku University, Japan

Magnetic Semiconductors

Jens Ludwig, Albert Ludwigs University, Freiburg, Germany

GaAs Sensor Systems for Medical Applications

• Klaus Ploog, Paul Drude Institute, Germany

Semiconductor Nanostructures

• Lan Fu, Australian National University, Australia

Impurity Free Vacancy Disordering of Quantum Wells and Quantum Dots

Alan Owens, ESA/ESTEC, Noordwijk, Netherlands

Recent Progress in Radiation Detectors Based on Wide Band-gap Compound Materials

• Russell D. Dupuis, University of Texas at Austin, USA

Applications of Nitrides

• Rositza Yakimova, Linköping University, Sweden

Present Understanding of Compensation Mechanism in SiC towards Growth of Semi-insulating Material

• Tomasz J. Wojtowicz, University of Notre Dame, USA

Growth of GaMnAs

• Tomasz Dietl, Institute of Physics, Poland

Theory of Ferromagnetic Semiconductors

William J. Schaff, Cornell University, USA

Growth of Low Gap InN and Solar Cell Applications of GaInN Alloys

Wladek Walukiewicz, Lawrence Berkeley National Laboratory, USA

Theory on Highly Mismatched Alloys (GaNAs, InN)

• Xiulai Xu, Cavendish Laboratory, University of Cambridge, United Kingdom

Quantum Dots for Quantum Information Processing

Zhonglin Wang, Georgia Institute of Technology, USA

On Oxide Nanomaterials

Zhaoqiang Fang, Wright University, USA

Deep Centers in Conductive and Semi-insulating GaN

More to be added.

Abstract Submission

Authors wishing to contribute a paper should submit an abstract of about 300-500 words in English to the conference chairman by July 15, 2004. The abstract should contain the authors' names and affiliations. Please underline the name of the presenting author. And affiliations should include full-mailing addresses, if possible, phone and fax numbers as well as e-mail addresses of the corresponding author.

It is best to send your abstract by email: <u>zgwang@red.semi.ac.cn</u> or by Online Abstract Submission through the Website of the conference (http://simc.semi.ac.cn:6666/).

Important Deadlines

Abstract deadline: July 15, 2004

Notification of acceptance: August 1, 2004

Pre-registration: August 15, 2004

Conference: September 20-25, 2004

Conference Site

Beijing Friendship Hotel is one of the largest garden-style hotels in Asia. Built in 1954, it covers an area of 335,000 square meters. Its style is of classic elegance with traditional Chinese architecture. It offers a full range of amenities, including a large variety of services, such as restaurants, room business centers, halls for meeting and symposium and recreational facilities of international standards.

Beijing Friendship Hotel lies in the Hi-tech Development Zone, Zhongguanchun Electronic Street, Haidian District, Beijing, P.R. China. It borders on the Third-Ring Road with transport facilities.

The general transportation is as follows:

From Hotel to	Distance	Time	Via
Beijing International Airport	33km	40min	car
Beijing Western Railway Station	11km	20min	car
Beijing Railway Station	18km	30min	car
Tian'anmen Square	13km	25min	car



Below is for the hotel's Chinese address and telephone number (which is a jpeg image). You can print it and show to the local taxi driver, which is very useful to get to the hotel successfully!

北京友谊宾馆

地址:北京市白石桥路 3号 电话:68498888

Travel and transportation

Passport and visa

Passports, valid for at least six months from the entry into China, and entry visas are required to visit China. Visas may not be required for visitors from certain countries, and conference participants are advised to consult the nearest Chinese diplomatic mission for details. The passport may be needed to check into hotels, book airline tickets and change money.

Conference will send an invitation letter via email for the conference participants to apply for a visa. If enquired, a formal invitation letter can also be sent via airmail. The application should be made

preferably at least one month before departure for China. Alternatively, conference participants may ask their travel agent to arrange their travel to China and obtain a tourist visa irrespective of whether or not they have the invitation letters.

Arrival in Beijing and Departure

When arriving at Beijing, the conference participants should first change some money at the Bank of China in the airport so that they can pay for taxi and other services with local money. Taxi can be easily found at the taxi stand outside the airport terminal. The cost of a ride to the hotel is roughly 100 Yuan or 12 US dollars. Please do not accept rides from persons who offer taxi service elsewhere at the airport. Make sure that the taximeter is turned on before the ride starts; you need to pay only the fare indicated by the taximeter plus 10 Yuan for the airport highway. Ask for a receipt printed out from the taximeter before you get off the taxi in case you have left anything in the taxicab or in case you have been overcharged.

The organizing committee will send some staff with the sign of the conference logo to the airport in the afternoon of Sept. 20 (14:00-20:00) to meet the arriving conference members and to direct them. If any person needs more help, please contact with the conference secretary (yhchen@red.semi.ac.cn).

All airports in China levy a departure tax on departing passengers. It is 50 Yuan (US\$6.2) for domestic flights and 90 Yuan (US\$11) for international flights. Vouchers for the departure tax can be purchased in the terminal building at the airport.

Local Transportation

Taxi is the most convenient form of transportation for foreign visitors. There are three rates applying to three different models of cars: 1.2Yuan, 1.6 and 2.0Yuan per kilometer. These rates apply only to the first few kilometers. Then, 50% more will be added to every kilometer.

The excellent public network will get you almost everywhere. Public buses are the most popular and inexpensive transportation means in Beijing. However, all stops and bus signs are written in Chinese, and bus conductors speak only Chinese. Some buses are air-conditioned, but most are not.

Local weather

Beijing's climate is defined as "continental monsoon." September is considered to be the best time to visit Beijing as the skies are clear and the weather is very comfortable. The average temperature is 19.4 degree (Celsius) and there is not much rain at this time of the year.

Liabilities

The conference organizers cannot accept responsibly for personal accidents or damage to any personal property of conference participants and accompanying persons. It is advisable to arrange personal insurance for the duration of the conference and any pre- and post-conference trips.

Registration

Registration Fee

All prospective conference participants must register in order to be admitted to the scientific program. Please visit the conference website at http://simc.semi.ac.cn:6666/ to register on-line or to download electronic form to fill out and send it back via email. The registration fee is as follows:

	Normal persons	IEEE members	Students	Accompanying persons
Before August 15	US\$ 410	US\$ 360	US\$ 250	US\$ 210
After August 15	US\$ 450	US\$ 400	US\$ 270	US\$ 230

Registration fee includes:

Conference fees:

Refreshment during session breaks;

Conference lunches and dinners;

Conference banquet;

Conference proceedings (not included for accompanying persons);

Conference trip (Great Wall, Forbidden City), Beijing Opera: plus US\$40/person.

Method of Payment

All fees must be paid in U.S. dollars by bank transfer, bank draft, or in cash. Currency exchange or bank service fees are the responsibility of the conference participants. If these have occurred during money transfer and have not been paid by the conference participants, they will be charged upon registration at the registration desk.

Payments by bank transfer

Account Number: 0200006209088114331

Account Name: Institute of Semiconductors, Chinese Academy of Sciences

Address of Account: No.35 Qinghua Eastern Road, Haidian District, P.O.Box 912, Beijing 100083,

China

Bank Name: Industrial and Commercial Bank of China, Beijing Zhongguancun Branch, Dongsheng Lu Sub-Branch

The names of the conference participants as well as details of any payment should be clearly marked on the money transfer order. A copy of the money transfer order from the bank should be sent with the Registration Form to the conference secretariat.

Payments by Bank Draft

Bank draft should be sent to:

Mr. Zhanguo Wang Chairman of SIMC-XIII-2004

Institute of Semiconductors, Chinese Academy of Sciences (CAS)

No.35 Qinghua Eastern Road, Haidian District, P. O. Box 912, Beijing 100083, China

On-site payments

On-site payments at the conference should be made in US dollars in cash.

Cancellation and Refunds

All cancellations of registration must be written to the Conference Chairman. No refunds will be made after September 10, 2004 but substitute conference delegates are acceptable. Refunds will be made after October 10, 2004, according to the following schedule:

Cancellation Made	Before Sep.1, 2004	After Sept.1, 2004	After Sept.10, 2004
Registration Fee	70% refunded	50% refunded	No refunded

Registration Desk

The registration desk will be set up in the lobby of the Beijing Friendship Hotel and will be open during the following hours:

Monday, September 20, 2004:	12:00-20:00
Tuesday, September 21, 2004:	8:00-18:00
Wednesday, September 22, 2004:	8:00-18:00
Thursday, September 23, 2004:	8:00-18:00
Friday, September 24, 2004:	8:00-18:00

Accommodations

A block of rooms at the Beijing Friendship Hotel will be reserved for conference participants and accompanying persons in the hotels listed below at special rates for standard rooms per night, including breakfast and service charges.

Depending on quality of accommodation, there is small difference in room rates:

Room Type	Room Rate
Standard Room* (Yingbin Building, four stars)	US\$70
Standard Room (Yibin Building, four stars)	US\$85
Standard Room (Guibin Building, five stars)	US\$95
Suite Room (Guibin Building, five stars)	US\$160

^{*:} There are two beds in the standard room.

Post-conference Tours

The appointed travel agency by SIMC-XIII will arrange the post-conference tours for conference attendees. Two post-conference tours are provided as follows:

1. Beijing-Xi'an-Beijing (3 days)

Visiting the museum of history, Wild Goose Pagoda, the Terra-cotta Warriors of Qin Shi Emperor, the Stele Forest

Fee: US\$400 per person for a group of 5, it includes air-ticket, airport transfer service, English-speaking guide, sightseeing admissions, accommodations, meals, and local transportation between Beijing airport and hotel.

2. Beijing-Xi'an-Guilin-Beijing (5 days)

Visiting the museum of history, Wild Goose Pagoda, the Terra-cotta Warriors of Qin Shi Emperor, the Stele Forest, cruise on the Li River with picturesque scenery.

Fee: about US\$600 per person for a group of 5, it includes air-ticket, airport transfer service, English-speaking guide, sightseeing admissions, accommodations, meals, and local transportation between Beijing airport and hotel.

Conference Chairman

Prof. Zhanguo Wang

Key Lab of Semiconductor Materials Science

Institute of Semiconductors, Chinese Academy of Sciences (IS, CAS)

P.O. Box 912, Beijing 100083, P.R. China

Tel: 86 10 8230 4250 Fax: 86 10 8230 5002

E-mail: zgwang@red.semi.ac.cn

Conference Secretary

Prof. Yonghai Chen

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