

ISPlasma is held annually as part of the Tokai Region Nanotechnology Manufacturing Cluster supported by MEXT to establish an advanced plasma nanotechnology science research foundation for global competitiveness in this region.

## SCOPE

### • Plasma Science and Technology

Advanced Plasma & Surface Diagnostics	Simulation and Database
Etching Process	Deposition Process
Solar Cells Based on Plasma Science	Advanced Plasma Flexible Electronics

### • Nitride Semiconductors

Crystal Growth of GaN and Related Materials	MBE Growth of Nitrides
Characterization	Device Processing
Electronic Devices	Optical Devices

### • Nanomaterials

Nanocarbon Materials	Porous Materials
Lithium-ion Rechargeable Battery Cells	Surface Modification
Surface Functionalization	Composite
Functionally Grade Materials	Nanoparticles

### • Integration Technology of Plasma Science, Nitride Semiconductors and Nanomaterials

### • Industry-Academia-Government Collaboration

## SCHEDULE AT A GLANCE

Mar. 6 (Sun)	Welcome Party at Cafe Sala, NIT
Mar. 7 (Mon)	Opening Technical Session Poster Session
Mar. 8 (Tue)	Technical Session Panel Discussion "Application of Advanced Plasma Technology for Nitride Semiconductors II" Poster Session Banquet at SAPPORO NAGOYA BREWERY KOUYOUEN
Mar. 9 (Wed)	Technical Session Panel Discussion "Establishment of Advanced Plasma Nanotechnology Science Research Foundation toward Open Innovation" Poster Session Closing

## SPECIAL ISSUE

- Submission Deadline: Thursday, March 31, 2011
- Selected papers will be published in a special issue of Jpn. J. Appl. Phys. (JJAP)

## RELATED CONFERENCES

- IC-PLANTS 2011 (Mar. 10-12, 2011)  
Takayama Public Cultural Hall, Gifu, Japan
- 10th Nitride Semiconductor Application Workshop (Mar. 10, 2011)  
Nagoya, Japan (To Be Announced)

**REGISTRATION :** Online Registration is now available.

### Registration Fee :

	General	Student
Early Registration (before Jan. 31)	JPY 20,000	JPY 3,000
Late Registration (until Feb. 28)	JPY 25,000	JPY 5,000
On-site Registration (after Mar. 1)	JPY 30,000	JPY 7,000
<b>Banquet Fee (on Mar. 8)</b>	JPY 5,000	JPY 2,000

For those attending only the Mar. 9, PM Session : Registration Fee is FREE.

\* Advanced online registration is required.

(Industry-Academia-Government Collaboration Lecture and Panel Discussion)

## SOCIAL EVENT

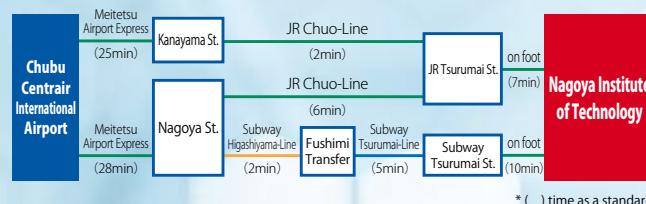
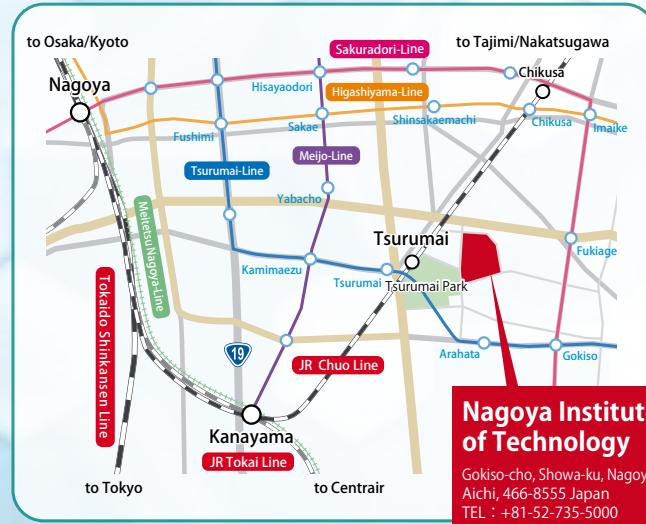
### • Welcome Party

Sunday, Mar. 6, 18:00~  
Cafe Sala, NIT

### • Banquet

Tuesday, Mar. 8, 18:30~  
SAPPORO NAGOYA BREWERY KOUYOUEN  
Fee : General 5,000 JPY Student 2,000 JPY

## ACCESS



# ISPlasma2011

3rd International Symposium on Advanced Plasma Science and its Applications for Nitrides and Nanomaterials

March 6-9, 2011

Nagoya Institute of Technology, Nagoya, Japan

## Organizing Committee

### Chairperson

Masaru Hori, Plasma Nanotechnology Research Center, Nagoya University

### Vice-Chairperson

Hideki Masuda, Nagoya Institute of Technology  
Hiroshi Amano, Nagoya University  
Keiji Nakamura, Chubu University

### Sponsored by :

Aichi Science & Technology Foundation,  
ISPlasma2011 Organizing Committee

### Co-sponsored by :

Aichi Prefecture, Nagoya City, Gifu Prefecture, Nagoya University, Nagoya Institute of Technology, Meijo University, Chubu University, The Japan Society of Applied Physics, The Japan Society of Plasma Science and Nuclear Fusion Research, The Japanese Association for Crystal Growth

### Grants :

Nagoya Convention & Visitors Bureau, Daiko foundation

### Contact

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# ISPlasma2011

## Program

### Mar.7 (Mon)

#### Plenary Speaker

Hiroyuki Sakaki (Toyota Technological Institute, JAPAN)

#### Special Keynote Speaker

John Robertson (Cambridge University, UK)

#### Keynote/Knowledge Cluster Speakers

##### Plasma Science and Technology

J-P. Booth (CNRS, FRANCE)  
U. Czarnetzki (Ruhr-University Bochum, GERMANY)  
D. B. Graves (UC Berkeley, USA)  
M. Hori (Nagoya University, JAPAN)  
O. Takai (Nagoya University, JAPAN)

##### Nitride Semiconductors

B. Daudin (CEA Grenoble, FRANCE)  
T. Egawa (Nagoya Institute of Technology, JAPAN)  
N. Grandjean (EPFL, SWITZERLAND)

##### Nanomaterials

M. Oda (ULVAC, Inc., JAPAN)  
H. Takikawa (Toyohashi University of Technology, JAPAN)  
Y. Watanabe (Nagoya Institute of Technology, JAPAN)

### Mar. 6 (Sun)

Registration

Welcome Party at Cafe Sala, NIT

### Mar. 7 (Mon)

Registration

Opening

Plenary Lecture: Hiroyuki Sakaki (Toyota Technological Institute, JAPAN)

Special Keynote Lecture: John Robertson (Cambridge University, UK)

Knowledge Cluster Lecture

Lunch

Poster Session 1

Plasma 1  
Advanced Plasma Measuring Technology

Nitride 1  
Plasma Assisted Growth

Nanomaterials 1  
Nanoparticles

Plasma 2  
Simulation

Nitride 2  
Optical Devices

Nanomaterials 2  
Surface Modification/Surface Functionalization

Poster Session 2

### Mar.8 (Tue)

#### Keynote Speakers

##### Plasma Science and Technology

M. J. Goeckner (University of Texas at Dallas, USA)  
F. Laermer (Robert Bosch GmbH, GERMANY)  
A. Wendt (University of Wisconsin-Madison, USA)

##### Nitride Semiconductors

D. Alquier (Université de Tours, FRANCE)  
H. Amano (Nagoya University, JAPAN)  
A. Khan (University of South Carolina, USA)  
A. Krost (Otto von Guericke University Magdeburg, GERMANY)  
F. Ponce (Arizona State University, USA)  
D. Ueda (Panasonic Corp., JAPAN)

##### Nanomaterials

A. Yoshino (Asahi Kasei Corp., JAPAN)  
H. Zhou (Texas A&M University, USA)

#### Panel Discussion

##### Application of Advanced Plasma Technology for Nitride Semiconductors II

###### <Moderator>

Y. Nanishi (Ritsumeikan University, JAPAN/ Seoul National University, KOREA)

###### <Panelist>

D. Alquier (Université de Tours, FRANCE)  
H. Amano (Nagoya University, JAPAN)  
B. Daudin (CEA Grenoble, FRANCE)  
N. Grandjean (EPFL, SWITZERLAND)  
H. Kano (NU Eco Engineering Co.,Ltd., JAPAN)  
A. Khan (University of South Carolina, USA)  
Y. Tokuda (Aichi Institute of Technology, JAPAN)  
D. Ueda (Panasonic Corp., JAPAN)  
A. Uedono (University of Tsukuba, JAPAN)

### Mar. 8 (Tue)

Registration

Plasma 3 Etching Process I	Nitride 3 Device Characterizations	Nanomaterials 3 Lithium-ion Rechargeable Battery Cells
Plasma 4 Etching Process II	Nitride 4 GaN/Si and its Applications	Nanomaterials 4 Porous Materials

Lunch

Poster Session 3

Nitride 5 Recent Progress in Nitride Devices

Nitride 6 Panel Discussion Plasma Science and Nitride Semiconductors II

Banquet at SAPPORO NAGOYA BREWERY KOUYOUEN

### Mar.9 (Wed)

#### Keynote Speakers

##### Plasma Science and Technology

J. G. Han (Sungkyunkwan University, KOREA)  
M. Kondo (AIST, JAPAN)  
J. Vlcek (University of West Bohemia, CZECH REPUBLIC)

##### Nitride Semiconductors

F. Scholz (Ulm University, GERMANY)  
E. Yoon (Seoul National University, KOREA)

##### Nanomaterials

K. Mizuuchi (Osaka Municipal Technical Research Institute, JAPAN)  
M. Meyyappan (NASA Ames Research Center, USA)

##### Industry-Academia-Government Collaboration

T. Arimoto (JST, JAPAN)  
M. Hori (Nagoya University, JAPAN)  
W. Izumiya (Sangyo Times Inc., JAPAN)  
C. Mantel (Selantek, Inc., USA)  
W. Vandervorst (IMEC, BELGIUM)

#### Panel Discussion

##### Establishment of Advanced Plasma Nanotechnology Science Research Foundation toward Open Innovation

<Moderator>  
N. Odake (Nagoya Institute of Technology, JAPAN)  
<Panelist>  
T. Arimoto (JST, JAPAN)  
M. Hori (Nagoya University, JAPAN)  
W. Izumiya (SangyoTimes Inc., JAPAN)  
Y. Madokoro (Aichi Prefectural Government, JAPAN)  
C. Mantel (Selantek, Inc., USA)  
W. Vandervorst (IMEC, BELGIUM)

\*Tentative

### Mar. 9 (Wed)

Registration

Plasma 5 Thin Film Deposition Process	Nitride 7 III-Nitride Microstrucrures	Nanomaterials 5 Composite/Functionally Grade Materials
Plasma 6 Solar Cells Based on Plasma Science/ Advanced Plasma Flexible Electronics	Nitride 8 Growth of GaN and Related Materials	Nanomaterials 6 Nanocarbon Materials

Lunch

Poster Session 4

Industry-Academia-Government Collaboration 1 \* Global Open Innovation

Industry-Academia-Government Collaboration 2 \* Panel Discussion

Closing

\*Registration Fee:Free, Simultaneous Interpretation