

## Foundation



Supported by International Exchange Program of National Institute of Information and Communications Technology (NICT)

## Special Thanks

➤ Fukuoka Convention & Visitors Bureau

## Important Dates

- Deadline of Abstract Submission: **June 16<sup>th</sup>, 2023.**
- Deadline of Early Registration: **October 1<sup>st</sup>, 2023.**
- Term of ICNS-14: **November 12<sup>th</sup> to 17<sup>th</sup>, 2023.**



**Hilton Fukuoka Sea Hawk**

(Provided by <https://hiltonhotels.jp/hotel/kyushu/hilton-fukuoka-sea-hawk>)

# *Final Call for Papers*

## **14<sup>th</sup> International Conference on Nitride Semiconductors (ICNS-14)**



**November 12-17, 2023**

**Hilton Fukuoka Sea Hawk,  
Fukuoka, Japan**

### **Sponsored by**

The Japanese Association for Crystal Growth ♦ The Japan Society of Wide Gap Semiconductors ♦ R032 Committee on Crystal Growth for Industrial Innovation

### **Endorsed by**

The Japan Society of Applied Physics ♦ Consortium for GaN Research and Applications

**Abstract deadline: June 16<sup>th</sup>, 2023**  
**Submission website: <https://icns14.jp>**

## **Scope of the Conference**

The conference will present high-impact scientific and technological advancements in materials and devices based on group-III nitride semiconductors and feature plenary sessions, parallel topical sessions, poster sessions, and an industrial exhibition. The first conference was a conjunction of the Topical Workshop on III-V Nitrides and the MRS International Symposium on Gallium Nitride and Related Materials held in Nagoya, Japan and Boston, USA, respectively, in 1995. The following twelve conferences were held in Tokushima, Japan (ICNS-2 1997); Montpellier, France (ICNS-3 1999); Denver, USA (ICNS-4 2001); Nara, Japan (ICNS-5 2003); Bremen, Germany (ICNS-6 2005); Las Vegas, USA (ICNS-7 2007); Jeju, Korea (ICNS-8 2009); Glasgow, UK (ICNS-9 2011); Washington DC, USA (ICNS-10 2013); Beijing, China (ICNS-11 2015); Strasbourg, France (ICNS-12 2017) and Bellevue, USA (ICNS-13 2019).

ICNS-14 will organize several parallel sessions. In each session, in-depth discussions on a focused aspect of the essential physics and chemistry underlying the critical issues associated with nitride semiconductors will be held, contributing to the breakthroughs of the critical technological barriers that must be overcome to improve the performance of nitride devices.

## **Format of the Conference**

ICNS-14 will begin with an introductory plenary session in which the current status and trends of nitride material research and device development will be reviewed, setting a basis for the discussions over the course of the conference. The following parallel topical sessions will provide opportunities for in-depth discussions via a vigorous program of invited/contributed talks and poster presentations covering the latest results on nitrides, including material processing, physics, devices, theory, and novel ideas.

## **Conference Language**

The official language of the conference will be English.

## Late News Papers

A limited number of papers describing the most recent results will be accepted as late news papers. The abstracts of these papers are to be prepared in accordance with the same guidelines as those for regular papers.

## Submission of Abstracts

Abstract Deadline: June 16th, 2023

Abstracts submission is available at <https://icns14.jp>, information regarding abstract formatting is available.

## Conference Topics

We invite you to submit papers to ICNS-14 on all aspects of the fundamental and applied research related to nitride semiconductors as follows. The corresponding session chairs are shown in *italics*.

✓ **Growth:**

Epitaxial growth, bulk growth, doping and point defects, alloys, microstructures, theory, growth methods and related technologies, and optical and electronic devices.  
*Y. Kumagai (Tokyo Univ. of Agr. & Tech., Japan)*

✓ **Characterization:**

Optical and electrical properties, structural analysis, defect characterization, nanophotonics and nanoelectronics, crystal band structures and electronic states of defects, theory, and simulation.  
*A. A. Yamaguchi (Kanazawa Inst. of Tech., Japan)*

✓ **Optical Devices:**

Light-emitting devices (UV/VIS-LEDs, lasers, and  $\mu$ LEDs), photovoltaics, energy harvesting, photodetectors, sensors, actuators, acoustic devices, nanostructures, nanodevices, new materials, and device concepts.  
*T. Takeuchi (Meijo Univ., Japan)*

✓ **Electronic Devices:**

Transistors, diodes, switches, amplifiers, power and RF applications, device processing and fabrication, transport and switching properties, novel device concepts, contacts, and reliability.  
*J. Suda (Nagoya Univ., Japan)*

## Program at a glance

Date	Nov. 12 (Sun)	Nov. 13 (Mon)	Nov. 14 (Tue)	Nov. 15 (Wed)	Nov. 16 (Thu)	Nov. 17 (Fri)
8:00		Registration	Parallel session	Parallel session	Parallel session	Parallel session
9:00		Opening and plenary				
10:00		Lunch	Excursion	Parallel session and poster session	Banquet and student event	
11:00						
12:00						
13:00	Women event and lunch					
14:00	Parallel session and poster session					
15:00		Rump session				
16:00	Parallel session and poster session					
17:00		Registration				
18:00	Welcome reception					
19:00						
20:00						

## Special Issue

All presentations at ICNS-14 will have the opportunity to submit a full-length paper to Physica Status Solidi (pss). According to ICNS tradition, the special issue will be published in pss (a) and (b) after peer review. In addition, selected papers will be published in pss (RRL) - Rapid Research Letters. All authors are encouraged to submit their manuscripts to the special issue. The deadline of the manuscript submission is December 15<sup>th</sup>, 2023. The instructions for preparing the manuscript will be given on the conference website shortly, which essentially obey the pss standard. The manuscripts will be reviewed by the normal reviewing process of pss. The publication charge will be included in a *Registration Fee* of the author. Regular open-access option can be ordered by paying the corresponding costs of 4020 USD (as of March 31<sup>st</sup>, 2023). It should be noted that the publication of no-show papers at the conference without unavoidable, legal reasons shall be canceled to eliminate no-show based submissions.

## Social Activities

### 1. Welcome Reception

Sunday evening 6 p.m. on Nov. 12<sup>th</sup>, 2023

A welcome reception will be held on the 1<sup>st</sup> floor of the Hilton Fukuoka Sea Hawk. All the participants and accompanying persons will be invited to participate free of charge.

### 2. Excursion

Wednesday, Nov. 15<sup>th</sup>, 2023

The conference will organize three courses to enjoy open discussions with social activities. Several courses will be offered, including (a) a traditional Dazaifu Tenman-gu shrine (大宰府天満宮), (b) a grand Sumo tournament (大相撲九州場所), (c) Japanese *Sake* tasting, (d) an oyster barbecue (牡蠣小屋). The website will soon announce the combinations of visiting spots and routes.



Dazaifu  
Tenman-gu  
(大宰府天満宮)

Photo provided by  
Fukuoka Prefecture  
Tourism Association



Grand Sumo  
tournament  
(大相撲九州場所)



Japanese Sake  
tasting

Photo provided by  
Fukuoka Prefecture  
Tourism Association



Oyster barbecue  
(牡蠣小屋)

### 3. Banquet

Thursday evening on Nov. 16<sup>th</sup>, 2023

A conference banquet will be held in the ARGOS room on the 1<sup>st</sup> floor of the Hilton Fukuoka Sea Hawk. In the Banquet, members of Hakata Geisha girls, “Hakata Geigi (博多芸妓),” will perform a traditional Japanese dance, and local Japanese *Sake*, wine, and delicious course meals will be served. Participation is optional and will be available on the website.



Hakata Geigi (博多芸妓)

Photo provided by Fukuoka City

### 4. Student Event

Thursday evening on Nov. 16<sup>th</sup>, 2023

A student event is held simultaneously with a banquet. Students from various Japanese universities organize this event. The participants may enjoy discussions while eating light meals and alongside beverages. All student participants attending this event are encouraged to participate in international exchange. Further information is available on the conference website: <https://icns14.jp>



Student Event in IWN2018 held at Kanazawa, Japan

## Registration

All attendees and presenters of the contributed papers are subject to relevant registration fees.

Category	Before Oct. 1 <sup>st</sup>	Oct. 2 <sup>nd</sup> -Nov. 7 <sup>th</sup>	On site
Regular (1)	80,000 JPY	95,000 JPY	120,000 JPY
Student (1)	30,000 JPY	40,000 JPY	
Exhibition (2)	50,000 JPY	60,000 JPY	80,000 JPY
Accompany (3)	3,000 JPY	5,000 JPY	
Banquet	10,000 JPY		
Student Event	1,000 JPY		
Excursion	6,000 JPY		

1) Regular and student registration fees include:

- Attendance of all the technical sessions.
- Conference kits such as technical digest.
- Welcome Reception.

2) The exhibition registration fee was paid for those who exhibited at the workshop. Please note that the exhibition fee includes a registration fee for the two exhibitors. Additional registration fees are required when three or more exhibitors attend a conference.

3) Accompany person fees include welcome reception. None of the registration fees included lunches.

**Note:** Exhibition and accompanying registrants cannot participate in any of the technical sessions.

## Payment

Payments will be processed via Credit Card (VISA, Master's, AMEX, and JCB). On-site registration is available but is very limited. Online payment is recommended in advance. (All payments must be in Japanese yen).



## Cancellation

Cancellations should be notified using the cancellation form provided on the conference website. The following cancellation fee will be charged.

Before Oct. 1<sup>st</sup>, 2023: 5,000 JPY

On/after Oct. 2<sup>nd</sup>, 2023: no refund.

## Passport and Visa

Please visit the conference website for [visa application](#) and [COVID-19 related information](#): <https://icns14.jp>.

All foreign visitors to Japan are required to possess passports. Participants from countries that require a visa to enter Japan should obtain a visa from the nearest Japanese embassy or consulate within a good time. If documents issued by the conference committee, such as an invitation letter, are necessary for visa application, please visit the website: <https://icns14.jp>. **Furthermore, all participants should be updated with the latest information on the restrictions on entering Japan caused by COVID-19.**

## Official Registration Desk

ART TOURIST members have been appointed as staff members at the official registration desk during the conference and will facilitate the registration. The registration desk will be open from 4 p.m. to 6 p.m. on Sunday, Nov. 12<sup>th</sup>, before the welcome reception, and from 8 a.m. on Monday, Nov. 13<sup>th</sup>, before the opening and plenary session.

### ART TOURIST CO., LTD.

TEL: +81-75-252-2234, FAX: +81-75-252-2244

Email: [icns-14@art-tourist.co.jp](mailto:icns-14@art-tourist.co.jp)

## Exhibition and Sponsorship

Sponsorships, exhibitors, and advertisements were welcomed at the conferences. The exhibition will be held from 11 a.m. on Monday 13<sup>th</sup> to noon on Friday 17<sup>th</sup> (tentative). We expect more than 1,000 participants, including academics, industrial researchers, and students worldwide, to attend. We also offer a wide range of sponsorship opportunities for companies that want to increase their visibility, both before and during the conference.

Item	Fee
Exhibition	300,000 JPY
Advertisement	Monotone 50,000 JPY
	Color 100,000 JPY

## Accommodation

The ICNS-14 Organizing Committee secured a limited number of rooms in the Hilton Fukuoka Sea Hawk. For reservation, a link will be provided on the ICNS-14 website (<https://icns14.jp>). In addition, there are many hotels in the Tenjin and Hakata areas, approximately 30 minutes away from the conference venue by bus and train; participants can reserve accommodation on their own behalf.

## Venue

Fukuoka City is located in the northern part of Kyushu Island, Japan. Fukuoka is Japan's 6th largest city, with 1.5 million residents. Fukuoka Airport (FUK) is located east of the city, close to downtown Fukuoka, and is accessible from Tokyo (NRT and HND), Osaka (ITM and KIX), and Nagoya (NGO). There are also scheduled flights to major cities.

The conference will take place in Hilton Fukuoka Sea Hawk, which is located at the prime oceanfront area near the heart of Fukuoka overlooking Hakata Bay. The conference venue has extensive meeting space with the latest technology. For more local information: Fukuoka city guide "YOKA NAVI" <https://yokanavi.com/en/>.

## Transportation

There are several ways to reach Hakata Fukuoka Sea Hawk through the international airports. It is accessible from Tokyo by the "Kyushu Shinkansen" super-express (approximately 5 h 13 min).

### From Fukuoka Airport

Take the subway, bus, or taxicab, which is approximately 20 to 40 minutes from the airport to Hilton Fukuoka Sea Hawk.

### From JR Hakata Station

Obtain #306 route bus bound for Fukuoka Tower and TNC Hall. Get off at the Hilton Fukuoka Sea Hawk-Mae bus stop that is Approximately 20 min of driving from the station.



## Further Information

Please visit <https://icns14.jp> for details on the registration, abstract submission, and other information. You may also contact the ICNS14 secretariat ([secretary@icns14.jp](mailto:secretary@icns14.jp)) for any queries.

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