

First Call for Papers

14th International Conference on Nitride Semiconductors (ICNS-14)



November 12-17, 2023

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

<https://icns14.jp>

Sponsored by

● **The Japanese Association for Crystal Growth**

Endorsed by

● **The Japan Society of Applied Physics**

Scope of the Conference

The conference will present high-impact scientific and technological advances 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 is a combination of the Topical Workshop on III-V Nitrides held in Nagoya, Japan and the MRS Intl Symposium on Gallium Nitride and Related Materials held in Boston, USA in 1995. The 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 be organized as a combination of several independent sessions. In each session, in-depth discussions will be held on a focused aspect of the essential physics and chemistry underlying the critical issues associated with nitride semiconductors. Such scientific activities will contribute to the breakthrough of the critical technological barriers that need to be overcome to improve the performances of nitride devices.

Format of the Conference

ICNS-14 will start with an introductory plenary session in which the current status and trends of nitride materials research and device development will be reviewed to set a basis for discussions during the conference. The following parallel topical sessions, which include sessions covering growth, characterization, and devices, will provide opportunities for in-depth discussions. The topical sessions will offer a strong program of invited/contributed talks and poster presentations covering the newest results on all the aspects of nitrides such as material processing, physics, devices, theory, and novel concepts.

Submission of Abstracts

Authors are requested to submit abstracts via using the submission form at <https://icns14.jp>. The abstract submission will open in 2023. **The deadline of abstract submission is June 16, 2023.** Please avail the detailed information on the abstract format from the website.

Conference Topics

We invite you to submit papers to ICNS-14 on all aspects of fundamental and applied research related to nitride semiconductors.

✓ Growth:

III-nitride crystal growth; III-nitride epitaxy; doping and point

defects; nitride alloys and Ga related materials; and growth methods and related technology.

✓ Characterization:

Optical and electrical properties; structural analysis; defect characterization; nanophotonics and nanoelectronics; and theory and simulation.

✓ Devices:

Light emitting devices (UV/VIS-LEDs, lasers, and μ LEDs); electronic devices (Power, RF, and THz); photovoltaics; energy harvesting; photo detectors; sensors; actuators; acoustic devices; nanostructures and nano-devices; new materials; and device concepts.

Special Issue

All presentations at ICNS-14 will have the opportunity to submit a full-length paper to *Physica Status Solidi*. Details will be announced in the Final Circular.

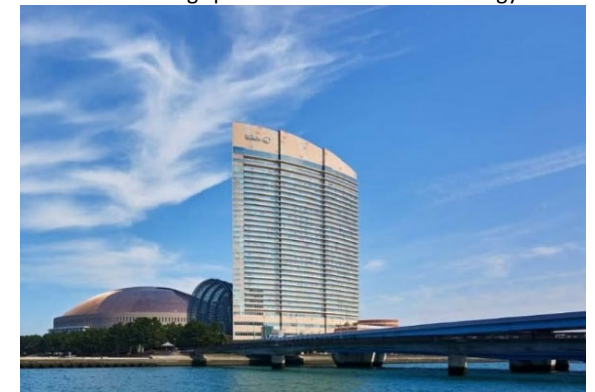
Exhibition and Sponsorship

A commercial exhibition will feature international exhibitors from all sectors of materials science and engineering communities. Official sponsors for various conference events are also solicited.

Venue

Fukuoka city is located on the northern area of the island Kyushu in Japan. Fukuoka is Japan's 6th largest city with 1.5 million residents. Fukuoka Airport (FUK) is located to the 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 from 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.



Hilton Fukuoka Sea Hawk

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



From Fukuoka Airport

Take airport shuttle bus, approximately 20 minutes' drive from the airport. The price of one-way ticket is JPY 1,000 per adult.

From JR Hakata Station

Get on the #306 route bus bound for Fukuoka Tower & TNC Hall. Get off at Hilton Fukuoka Sea Hawk-mae bus stop. Approximately 20 minutes drive from the station.

Social Activities

The conference will organize a tour to "Ozumo Kyushu Basho" (November Grand Sumo Wrestling Tournament), which will be held at Fukuoka Convention Center. "Ozumo" is a traditional wrestling sport in Japan, and is one of the official professional Sumo tournaments. In 2023, "Ozumo Kyushu Basho" is scheduled during November 12-26 in Fukuoka. Furthermore, the conference will organize various social events including welcome party, excursion, and banquet.



Provided by <https://www.crossroadfukuoka.jp/en/>

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