www.ispsa.or.kr Call for Papers



July 17 (Sun.) ~ **21** (Thu.), **2022**

Ramada Plaza Jeju Hotel, Jeju, Korea

"Past-, current-, and future-semiconductors"

The 20th International Symposium on the Physics of Semiconductors and

Applications

Welcome Message

ISPSA 2022, hosted by the Korean Physical Society, is to report and discuss the state of the art in semiconductor physics and applications including electronic, spintronic, quantum and energy materials and devices. Reflecting the scientific heritage on traditional semiconductor physics dating back to the 1970s, emerging academic fields, such as artificial intelligence, quantum information, and industrial semiconductor applications, will newly enrich the 20th ISPSA in one of the most dynamic places for semiconductor physics, Korea.

Call for Papers

ISPSA 2022 cordially invites you to submit your abstracts for oral and poster presentations. All abstracts will be reviewed by the program committee and assigned to the appropriate session based on research fields and program topics category. Abstract should be submitted to website (www.ispsa.or.kr) by Apr. 22, 2022

Symposium Topics

The topics will cover research and activities across all fields related to physics of semiconductors and applications including, but not limited to, the following topics;

- 1 Advanced semiconductors (AS)
- 2 Novel functional spintronics (NFS)
- 3 Low dimensional semiconductors (LDS)
- 4 Artificial Intelligence (AI) materials and devices
- 5 Quantum information (QI)
- 6 Plasmonics and optoelectronics (PO)
- 7 Energy materials and devices (EMD)
- 8 Industrial semiconductor applications (ISA)

Important Dates

Abstract Submission April 22, 2022

Acceptance Notification May 12, 2022 Post-deadline Submission May 6, 2022 Pre-registration Deadline July 1, 2022

Publication

Authors whose abstracts are accepted will be invited to submit manuscripts to some of the highly recongnized professional journals in related fields. Detailed information can be found from the website soon.

Best Student Paper Award [Oral and Poster presentation]

In order to identify outstanding work by student participants, the Best Student Presentation award will be given for an excellent presentation of the conference, and award winner must be registered as a student and also must be a student. The award is offered based upon an absolute standard of excellence and all student presenters will be considered eligible for the award.

Organizing Committee

Honorary Chairman	Eun Kyu Kim (Hanyang Univ.) Yongmin Kim (Dankook Univ.)	
Symposium Chairman	Yong-Hoon Cho (KAIST)	
Vice-Chairman	Heesuk Rho (Jeonbuk Nat'l Univ.) Jong Su Kim (Yeungnam Univ.) Jae Su Yu (Kyung Hee Univ.)	
General Secretary	Mun Seok Jeong (Hanyang Univ.)	
General Vice-Secretary	Kwun-Bum Chung (Dongguk Univ.) Chang-Hee Cho (DGIST)	
Program	Jin Pyo Hong (Hanyang Univ.) Hyunsik Lim (Dongguk Univ.) Dong-Wook Kim (Ewha Womans Univ.) Heejun Yang (KAIST)	
Publication	Kwangseuk Kyhm (Pusan Nat'l Univ.) Soo Bong Choi (Incheon Nat'l Univ.) Donghun Lee (Korea Univ.) Do Kyeong Hwang (KIST) Mee-Yi Ryu (Kangwon Nat'l Univ.) Keun Su Kim (Yonsei Univ.)	
Communication	Young-Jun Yu (Chungnam Nat'l Univ.) Han-Youl Ryu (Inha Univ.) Seung Hyun Song (Sookmyung Women's Univ.) Jung Inn Sohn (Dongguk Univ.) Chul-Ho Lee (Korea Univ.)	
Treasurer	Hong Seok Lee (Jeonbuk Nat'l Univ.) Jungyup Yang (Kunsan Nat'l Univ.)	
Finance	Doo Jae Park (Hallym Univ.) Jae Won Shim (Korea Univ.) Jung Hwa Seo (Univ. of Seoul) You Seung Rim (Sejong Univ.)	
Local	JinKee Hong (Yonsei Univ.) Woochul Yang (Dongguk Univ.) Kyunghu Choi (KRRI) Clare C. Byeon (Kyungpook Nat'l Univ.) Yong Soo Kim (Univ. of Ulsan) Moongyu Jang (Hallym Univ.) Sangwan Ryu (Chonam Nat'l Univ.) Hye-Won Seo (Jeju Nat'l Univ.) Sang Jun Lee (KRISS) Jindong Song (KIST) Won Seok Han (ETRI)	

Organizer



Plenary Speakers

Be sure not to miss our speakers who will present their latest findings and research at ISPSA 2022. Find out more on the website.



Mark C. Hersam (Northwestern Univ., USA)

"Fundamentals and Applications of Mixed-dimensional van der Waals Heterostructures"



Yuri Kivshar (Australian Nat'l Univ., Australia)

"Metaphotonics and Metasurfaces Governed by Mie Resonances"



Young Hee Lee (Sungkyunkwan Univ., Korea)

"Flatland in van der Waals Materials and Heterostructures"



Daniel Lau Shu Ping (The Hong Kong Polytechnic Univ., Hong Kong) "Emerging Opportunities of Solution-processsable Black



H.-S. Philip Wong (Stanford University, USA) "Materials, Devices, and Process Technology for AI Compute"



Joerg Wrachtrup (Stuttgart Univ. and Max Planck Inst. for Solid State Research, Germany)

"Quantum Technology with Defects"

Tutorials (in Korean)

The tutorials will be featured in the first day of the symposium and are aimed to provide introductory courses for physics of semiconductors and applications fields. Specific information can be checked at the website.

Visit Jeju in 2022!

Jeju is the biggest island of Korea. Basalt rocks cover more than 90% area of this universal volcanic island. It is proud of its unique cultural folk heritage as well as its geographical and historical relevance. The island itself is an extinct volcano with its peak jutting skyward at the center and a broad, gentle littoral all the way around showing a very unique geographical condition. There are bountiful forests and ravines, fantastic rock formations and volcanic craters, and caves and grasslands that together paint a natural scene of breathtaking beauty. Sparkling seas and tiny islets surround Jeju, with rocks scattering amidst sandy beaches to create a magnificent view everywhere you look. In 2007, the volcanic island and lava tube cave systems were designated as UNESCO World Natural Heritage Sites for their natural beauty and geographical value.

Easy Access to Jeju, Korea

Jeju International Airport is conveniently located at the center of East Asia and is easily accessible from China, Japan, and Southeast Asia. The airport currently services 16 direct international flights and 13 domestic flights. ISPSA secretariat recommends that visitors take a direct international flight to Jeju Island for their convenience.

Visa Information

Any foreign visitor wishing to enter the Republic of Korea must have a valid passport and obtain a Korean visa before coming. But people of 99 countries who want to visit Korea temporarily are permitted to enter without a visa. More information will be posted on the Symposium website.

Symposium Venue: Ramada Plaza Jeju Hotel

This internationally renowned deluxe resort-style business hotel is a fifteen-minute car ride away from both Jeju Harbor and Jeju International Airport. It can be reached within an hour from wherever you are on the Jeju Island.

66 Topdong Ro, Jeju, 63165, Korea Address

+82-64-729-8100 Tel.





Tel +82-44-862-7962 E-mail ispsa@ispsa.or.kr

Fax +82-44-862-7963 Website www.ispsa.or.kr

