



WEB site www.jwps2019.com

**Nara Kasugano International Forum IRAKA, Nara, Japan
October 28 – November 2, 2019**

Announcement

The 4th Japan-China Joint Workshop on Positron Science (JWPS 2019) will be held on October 28 – November 2, 2019 at Nara Kasugano International Forum IRAKA, Nara, Japan. JWPS 2019 is organized by Kyoto University under the auspices of the Japanese Positron Science Society.

The workshop will gather scientists of the Asian area at the forefront of research on positron annihilation to share information on recent progress in this field. The main topics include a wide range of subjects involving fundamental aspects, applications as well as instrumentation. Keynote speakers will introduce subjects of broad interest and stimulate discussions. Plenty of time will be assigned to each presentation and informal style discussions to promote the exchange of information and ideas.

About JWPS

The first workshop, JWPS2012, was held in November 2012 at Wuhan University, Wuhan, China, and aimed to gather together scientists working in China and Japan at the forefront of research on positron science to share information on the most recent progress in relevant fields. One year later, a second workshop, JWPS2013, was held at the National Institute of Advanced Industrial Science and Technology (AIST), in Tsukuba, Japan. A third workshop, JWPS 2017, was held on June 9–11, 2017 at University of Science and Technology of China (USTC), Hefei, China. These China-Japan joint workshops provide valuable opportunities for exchanging ideas and the discussion of a wide range of subjects including positron science, material science developed/analyzed by positron techniques, and measurement techniques, etc. In particular, the workshops provide a good opportunity to promote international exchange between young researchers in positron science, thus making an important contribution to the future development of this research field.

Scientific Scope

- A) Positron physics and positronium chemistry
- B) Positron applications in metals, semiconductors, superconductors, and magnetic materials
- C) Positron applications in porous media, polymers, membranes, and biomaterials
- D) Positron applications in surfaces, Interfaces, and thin films
- E) Advances in positron annihilation analytical techniques and instrumental development

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International Organizing Committee

JAPAN

Kenji Ito (AIST, Chair), Hidetsugu Tsuchida (Kyoto Univ.), Toshitaka Oka (Tohoku Univ.), Nagayasu Oshima (AIST), Brian O'Rourke (AIST), Ken Wada (QST), Kiminori Sato (Tokyo Gakugei Univ.)

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Research Institute for Material and Chemical Measurement, AIST



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Japanese Positron Science Society (JPOSS)

Sponsors

The workshop is held under the following company's auspices:

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Important Dates

- Final program October 1, 2019
- Deadline for submission of manuscripts January 15, 2020

Registration fee

	before June 15, 2019	after June 15, 2019
Regular	JPY 35,000	JPY 40,000
Student	JPY 10,000	JPY 15,000
Accompanying person	JPY 10,000	JPY 15,000

Please pay the registration fee at the venue during the workshop period. We accept only cash (Japanese yen).

Scientific Program

	Oct. 28	Oct. 29	Oct. 30	Oct. 31	Nov. 1	Nov. 2											
8:30	Plenary, Invited: 30min Contributed, Student: 20min Including discussion	Registration	JST Sakura Program (Late 10/30 to 11/2)														
9:00			Poster Session 2 (26 papers)	Student: K. Yamada		Lab. Tour QSEC, Kyoto Uni. (by Bus)											
9:10				Student: K. Hashidate													
9:20				Student: K. Shu													
9:30				Student: H. Wang													
9:40				Student: M. Nakajima													
9:50		Opening		Invited 9: S. Yoshimoto													
10:00			Oral 1: Z. Chen														
10:10			Oral 2: W. Zhou														
10:20			Break														
10:30		Invited 1: T. Hirade	Invited 12: X. Cao		Student: X. Liu												
10:40			Break		Student: T. Karatsu												
10:50		Invited 2: C. He	Oral 3: H. Zhang		Student: K. Tanaka												
11:00			Break		Student: K. Sugita												
11:10		Invited 3: L. Chiari	Oral 4: J. Liu		Student: H. Minagawa												
11:20			Invited 10: N. Matsuki		Student: Z. Liu												
11:30	Invited 4: B. O'Rourke	Invited 11: T. Zhang		Closing													
11:40		Workshop photo 1															
12:30	Lunch	Lunch	Lunch	Lunch													
12:40																	
12:50																	
13:00	Registration	Invited 5: K. Sato	Excursions around the Nara Park	13:10-18:30 TIA Kakehashi Symposium Application of Positron Beams at Major Facilities (SO: N. Oshima) N. Oshima B. Wang T. Hyodo A. Kinomura K. Wada Z. Wei A. Ishida K. Michishio	Summary & Remarks												
14:00						Invited 6: Y. Zhao	Invited 13: F. Ling										
14:10								Break	Invited 14: Y. Wu								
14:20										Invited 7: T. Yamashita	Oral 5: S. Huang						
14:30												Invited 8: Y. Sun	Workshop photo 2				
14:40														Poster Session 1 (19 papers)	Get together at the Garden		
14:50																Dinner 1 near JR Nara	Bunquet @ the Nara Hotel
15:00																	
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18:00	Welcome Reception @ the Kotowa	Dinner 1 near JR Nara	Bunquet @ the Nara Hotel	Dinner 2 near Kintetsu Nara													

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Satellite Session

TIA Kakehashi Symposium: Application of Positron Beams at Major Facilities

(13:10-18:30, October 31st, 2019)

The current status of major facilities for positron production in Japan and China, as well as recent progress on their applications, are reported. Emerging measurement techniques and their applications including an idea for future collaborations are also discussed. All speakers are invited from the organizer, and the session is held under the auspices of the organizing committee of JWPS2019.

Manuscript for the Proceedings

Workshop proceedings is published in JJAP Conference Proceedings. Details can be checked below.

Journal: Published in JJAP Conference Proceedings (JJAP-CP)

(Please consult previous JJAP proceedings: published in JJAP-CP Vol.2 and Vol.7)

How to submit: Information on how to submit is available on the author information page. Please prepare a camera-ready manuscript with about 6-10 pages. It is desirable to list more than 20 references. Templates for manuscript (MS-Word/LaTeX) can be downloaded. Papers will only be accepted which are presented in the conference and not published anywhere else and not being considered for publication. Only one paper can be submitted per (person and presentation). No additional fee is required for submission.

Submission Deadline: Deadline for paper submission is January 15, 2020.

Peer Review: All manuscripts will be subject to peer review. The editors will make final decisions based on the reports received from the referees.

Open Access: All the accepted papers will be published with free online access. The papers can be accessed not only by conference attendees but by anyone.

Editorial Board: H. Tsuchida (Kyoto Uni.), N. Oshima (AIST), K. Ito (AIST), B. O'Rourke (AIST), T. Oka (JAEA), K. Sato (Tokyo Gakugei Uni.), Q. Xu (Kyoto Uni.), C. He (Wuhan Uni.), X. Cao (IHEP)



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Venue & Travel

The workshop will be held in Nara, Japan, which is close to Osaka and Kyoto. Participants from abroad have easy access to Nara (Kintetsu Nara Station) from Kansai International Airport (KIX). It takes about 60 min. by airport shuttle bus.

Time table "KIX ⇄ Kintetsu Nara Station and JR Nara Station are available at:

<https://www.narakotsu.co.jp/language/cn/limousine/kix-nara.html>

The venue is the Nara Kasugano International Forum IRAKA (<http://www.i-ra-ka.jp/cn/>), located in the Nara National Park.

Registration & Welcome reception

The workshop registration will open at the "KOTOWA" near the Sarusawa Pond (a 5 minutes' walk from Kintetsu Nara Station or a 15 minutes' walk from JR Nara station) from 16:00 on October 28, 2019, followed by a welcome reception around 18:00 at the same venue.



Lunch & Dinner

A bento-box lunch and beverages will be provided for you during the workshop on October 29, 30, 31 and November 1. Also, dinner will be provided on October 29 and 31. Please enjoy a Japanese-style dish.

Excursion & Banquet

The excursion will take place on Wednesday, October 30 from 14:00 to 16:30, which is a guided walking tour around Nara Park. In this tour, we plan to visit the Kasuga Grand Shrine and the Todaiji Temple (equipped with the Great Buddha Hall). After the excursion, the banquet will take place at the "Nara Hotel". Please gather at 17:00 in the garden outside the banquet room. You can enjoy a welcome drink. After that, the banquet will be held from 18:00 to 20:00.

Laboratory Tour

The laboratory tour will take place on Saturday, November 2 from 9:00 to 13:00. We plan to tour the accelerator facility at Uji Campus, Kyoto University. Participants on this tour will go there on the bus. The departure time is 9:00 in front of the entrance of the Workshop venue. The tour will be dismissed at 13:00 at the Workshop venue.