

# The 10th Japan–Korea Joint Summer School on Accelerator and Beam Science, Nuclear Data, Radiation Engineering and Reactor Physics

- Date: August 19 – 22, 2019
- Place: RCNP, Osaka University, Osaka, Japan
- Farewell party: Skyrestaurant, 14F, Osaka University Hospital
- Topics: Superconducting Linac, Photocathode RF gun, Radiation environment and issue, Fast breeder reactor, Accelerator driven system, RAON nuclear data, Neutron nuclear data, Radiation cancer therapy, Synchrotron radiation application, Advanced radiation measurement, Imaging Techniques
- Student Poster Session will be arranged on August 20th.

**Hom page:** <http://www.rcnp.osaka-u.ac.jp/~mspforum/index.html>

## Fee

Pay a fee at reception in JPY cash.

**Korean Student**

free

**Japanese Student (stay at the university dormitory)**

15,000 JPY

**Korean Staff (stay at the university dormitory, limited availability)**

15,000 JPY

**Korean Staff (NOT stay at the university dormitory)**

5,000 JPY

**Japanese Student and Staff (NOT stay at the university dormitory)**

5,000 JPY

## Registration

- Dead line is **July 20, 2019**.
- Extended to **August 9th, 2019**.

## Textbook

- The material will be uploaded. Every participant should download the textbook material at this website by yourself. Printed textbooks will not be handed out at this summer school.

## Contact

### **RCNP representative**

Mitsuhiro FUKUDA, RCNP, Osaka University (mfukuda@rcnp.osaka-u.ac.jp)

### **Coordinator**

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**Program of the 10<sup>th</sup> Korea-Japan Joint Summer School on Accelerator and Beam Science, Nuclear Data, Radiation Engineering, and Reactor Physics.**

Date	Time	Topics	Lecturer
August 19 (Mon)	15:00~18:00	Registration	
	18:00~20:00	Reception	
August 20 (Tue)	09:20~09:30	Opening address, guidance	
	09:30~10:00	Introduction of Research Center for Nuclear Physics	Takashi Nakano (RCNP)
	10:00~12:00	Lab Tour of RCNP	Mitsuhiro Fukuda(RCNP)
	12:00~13:00	Lunch break	
	13:00~14:00	Development and Application of Cyclotron	Mitsuhiro Fukuda (RCNP)
	14:00~17:00	Student's Poster Session	
August 21 (Wed)	09:30~12:30	Lecture 1: Accelerator	Jong-Won Kim (IBS) Sang Pil Yoon (KAERI) Jinfeng Yang (Osaka U.)
	12:00~14:00	Lunch break	
	14:00~17:00	Lecture 2: Radiation Engineering	Geehyun Kim (Sejong U.) Hiroyuki Takahashi (U.Tokyo)
August 22 (Thu)	09:30~12:30	Lecture 3: Nuclear Data	Seung-Woo Hong (SKKU) Tatsuya Katabuchi (TIT)
	12:30~14:00	Lunch break	

	14:00~17:00	Lecture 4: Reactor physics, Special Topics on ADS	Yonghee Kim (KAIST) Takanori Sugawara (JAEA)
	17:00~17:30	Closing Ceremony	

### Lecturer

#### 1. Nuclear Data

Prof. Seung-Woo Hong (SKKU), [swhong@skku.ac.kr](mailto:swhong@skku.ac.kr)

“Nuclear Data Production System at RAON”

Prof. Tatsuya Katabuchi (TIT), [buchi@lane.iir.titech.ac.jp](mailto:buchi@lane.iir.titech.ac.jp)

“Neutron Nuclear Data Measurement”

#### 2. Accelerator

Dr. Jong-Won Kim (IBS), [jwkim@ibs.re.kr](mailto:jwkim@ibs.re.kr)

“Design considerations of rare isotope beam facility based on high-current superconducting linac”

Dr. Sang Pil Yoon (KAERI), [spyun@kaeri.re.kr](mailto:spyun@kaeri.re.kr)

“Radiation environment and issue at the particle accelerator facility”

Prof. Jinfeng Yang (Osaka U.), [yang@sanken.osaka-u.ac.jp](mailto:yang@sanken.osaka-u.ac.jp)

“Development of Photocathode RF-gun for Generation of Ultra-fast Electron Beam”

#### 3. Reactor physics

Aug. 22 14:00~17:00

Prof. Yonghee Kim (KAIST), [yongheekim@kaist.ac.kr](mailto:yongheekim@kaist.ac.kr)

“Concepts and Physics of the Breed & Burn Fast Reactor”

Dr. Takanori Sugawara (JAEA), [sugawara.takanori@jaea.go.jp](mailto:sugawara.takanori@jaea.go.jp)

“R&D activities for Accelerator-Driven System to transmute Minor Actinides in JAEA”

#### 4. Radiation Engineering

Prof. Geehyun Kim (Sejong U.), [gkim01@sejong.ac.kr](mailto:gkim01@sejong.ac.kr)

“Radiation Imaging Techniques”

Prof. Hiroyuki Takahashi (UT), [leo@n.t.u-tokyo.ac.jp](mailto:leo@n.t.u-tokyo.ac.jp)

“Radiation Detector and Associated Electronics Development at the University of Tokyo”

Dr. Sung-Chul Yang (KAERI) will come to take care the Korean students.  
[scyang@kaeri.re.kr](mailto:scyang@kaeri.re.kr)